

Prvá

POČTOVNICA

pre

ľudové školy.

Sostavil a vydal

Ján Bežo,

učiteľ v Senici.

Kruh čísel 1—100.

Tlačil Karol Gorišek

vo Viedni, 1884.

Cena broširovaného výtisku 10 kr., v tuhej väzbe 14 kr.

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Slovenská pedagogická knižnica
Bratislava

Sign.

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Prír. čís.

137441

Oddiel prvý.

Kruh čísel od 1 až po 10.

1. Čísla od 1—5.

(Znázornenie, napredné a spätné čítanie.)

Jedna čiarka.



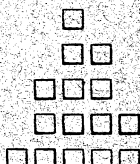
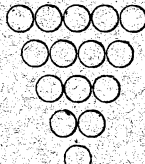
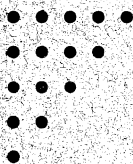
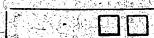
Jedna guľka.



Jedno kolečko.



Jeden štvorec.





$$1 + 0 = \quad | \quad 1 - 1 = \quad | \quad 1 \times 1 = \quad | \quad 1 \vee 1 =$$

+ znamená to slovičko *a*, - slovičko *bez* alebo *menej*,
 × slovičko *krát*, • slovičko *koľko*.

Tu oboznámi učiteľ dietky s *krajciarom*, *métrom*,
litrom a *kilogramom*, jakožto s jednotkou miery.



$$\bullet \bullet \quad \frac{1+1}{2-1} = \quad | \quad \frac{2}{2} = \frac{1+}{1} \cdot \quad | \quad \frac{1 \text{ vo } 2}{1} = \frac{1}{2} \text{ zo } 2 =$$

(Príklady z každodenného života.)

1) Janík dostal od otca 1 krajciar a od matky tiež 1 krajciar; koľko krajciarov mal spolu?

2) A keď Janík zo svojich dvoch krajciarov jeden dal žobrákovi, koľko mu ešte zvyšilo?

*) *Pochop jednotky.* Učiteľ ukiaže žiakom jednu gulku (paličku lebo knižku) a riekne: toto je *jedna* gulka. Koľko je to guliek N.? Ukiaž jednu knižku — jednu paličku — jeden prst — jeden oblok — jeden dvere atď.

Nakresli: jednu kolmú čiarku — jeden krížik — jedno kolečko — jeden štvorhran atď.

Jedna gulka je jedenkrát jedna gulka? — Jedenkrát jedna gulka je jedna gulka. — Jedno je jedenkrát jedno. — Jedenkrát jedno je jedno.

Takto vždy príklady sosmyselnújúc, vyvínuje učiteľ u dietok pochop i o ostatných číslach. Lež nie len vyvíňovanie číslového pochöpu ale aj rozkladanie čísla diať sa má vždy najprv príklady a až potom samými číslami. Na pr. pri čísle *dve*: Jedna gulka a k tomu jedna gulka je koľko guliek? Jedno a jedno je koľko? Alebo: Polovica či druhá časť zo dvoch guliek je koľko guliek? Polovica zo dvoch je koľko? Atď. atď.

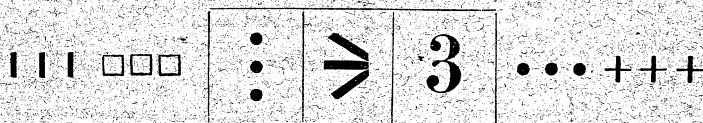
3) Dva jednaké predmety menujeme aj **párom**. Števko mal pár holubov, ale mu jeden uletel; koľko holubov mu ešte ostalo?

4) Jedna písanka stojí 1 krajciar; koľko krajciarov budú stáť 2 písanky? Prečo toľko?

5) Tu je **jedna celá** palička; keď ju tu v prostriedku na 2 rovné čiastky prelomím, tak jednu takú čiastku **polovicou** menujeme. Koľko polovic obdržíme, keď jedno jablčko na poli prekrojíme?

6) Keď 2 jablčka dávajú za krajciar, koľko príjde za 1 jablčko?

7) Čo je polovica: zo dvoch chlebov? a zo dvoch litrov mlieka? a zo dvoch metrov plátna? a zo dvoch kilogramov mäsa? Atď. *)



$$\begin{array}{l} \bullet \mid \bullet \quad 2 + 1 = \mid 3 - 1 = \mid 3 = 2 + \mid 1 \times 2 + 1 = \\ \bullet \mid \bullet \quad 1 + 2 = \mid 3 - 2 = \mid 3 = 1 + \mid 2 \text{ vo } 3 = 1 \text{ (1)} \end{array}$$

$$\begin{array}{l} \bullet \mid \bullet \mid \bullet \quad 1 + 1 + 1 = \mid 1 \text{ vo } 3 = \mid 1/3 \text{ zo } 3 = \text{**) } \\ \bullet \mid \bullet \mid \bullet \quad 3 \times 1 = \mid 1 = 1/3 \text{ zo } \end{array}$$

(Úkoly k písobnému [tichému] cvičeniu.) ***)

$$\begin{array}{l} 2 + 1 = 3 \mid 2 - 1 = 1 \mid 2 \times 1 = 2 \mid 1 \text{ vo } 2 = 2 \\ 1 + 2 = \mid 3 - 1 = \mid 3 \times 1 = \mid 1 \text{ vo } 3 = \\ 1 + 1 = \mid 3 - 2 = \mid 1 \times 2 = \mid 1/2 \text{ zo } 2 = \\ 3 + 0 = \mid 2 = 1 + \mid 1 \times 3 = \mid 1/3 \text{ zo } 3 = \\ 1 + \cdot = 3 \mid 3 = 1 + \mid 1 \times 1 = \mid 1 = 1/2 \text{ zo } \end{array}$$

*) Chce-li učiteľ úspechu dosiahnuť, musí podobných príkladov žiakom hojne predniesť; že ale žiaci prvej triedy neznajú ešte čítať, a utvorenie takýchto jednoduchých, krátkych príkladov pre domyselného učiteľa není žiadnou ťažkosťou, preto podávajú sa tu len nektoré na ukážku a jako pripomenutie pre učiteľa.

**) Uvedenými značky $1/2$, $1/3$ a p. mieni sa v prvej triede len prosté delenie istého počtu deliteľných jednotiek, nie však zbytkov častí jednotky. Naproti tomu vidz 5-ty „príklad z každodenného života“ i s poznamkou.

***) Kdeby žiaci prvej triedy neboli ku písaniu číslíc vedení, tam použijú sa úkoly ty len k ústnemu cvičeniu.

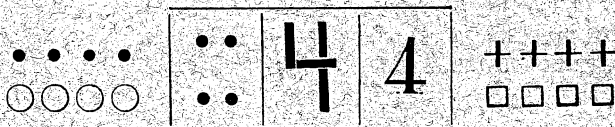
1) Anna doniesla si do školy šlabikár, počtovnicu a tabuľku; koľko je to kusov dohromady?

2) Peter mal 3 hrušky; z týchto jednu zjedol a jednu dal svojej sestričke, koľko hrušiek má ešte?

3) Clovek má jednu hlavu, koľko hláv majú traja ľudia?

4) Janko, Miško a Jurko rozdelili medzi seba 3 orechy, koľko orechov dostal jeden a jeden? Prečo toľko?

5) Keď jedno jablko rozkrojíme na 3 rovné časti, tak jednu takú časťku **tretinou** menujeme *). Čo je teda tretia časťka z 1 hrušky? Atď.



$$\begin{array}{l} \bullet \\ \bullet \\ \bullet \\ \bullet \end{array} \left| \begin{array}{l} 3 + 1 = \\ 1 + 3 = \end{array} \right| \begin{array}{l} 4 - 1 = \\ 4 - 3 = \end{array} \left| \begin{array}{l} 4 = 3 + \\ 4 = 1 + \end{array} \right| \begin{array}{l} 1 \times 3 + 1 = \\ 3 \text{ vo } 4 = \end{array}$$

$$\begin{array}{l} \bullet \\ \bullet \end{array} \left| \begin{array}{l} 2 + 2 = \\ 4 - 2 = \end{array} \right| \begin{array}{l} 4 = 2 + \\ 2 \times 2 = \end{array} \left| \begin{array}{l} 2 \text{ vo } 4 = \\ 2 = 1/2 \text{ zo } 4 = \end{array} \right| 1/2 \text{ zo } 4 =$$

$$\bullet \left| \bullet \right| \bullet \left| \bullet \right| \begin{array}{l} 1 + 1 + 1 + 1 = \\ 4 \times 1 = \end{array} \left| \begin{array}{l} 1 \text{ vo } 4 = \\ 1 = 1/4 \text{ zo } 4 = \end{array} \right| 1/4 \text{ zo } 4 =$$

1.

$$\begin{array}{l} 3 + 1 = \\ 1 + 2 = \\ 2 + 2 = \end{array} \left| \begin{array}{l} 4 - 1 = \\ 4 - 2 = \\ 4 - 3 = \end{array} \right| \begin{array}{l} 4 = 3 + \\ 4 = 2 + \\ 4 = 1 + \end{array} \left| \begin{array}{l} 2 + \cdot = 3 \\ 2 + \cdot = 4 \\ 1 + \cdot = 4 \end{array} \right.$$

2.

$$\begin{array}{l} 3 \times 1 = \\ 4 \times 1 = \\ 2 \times 2 = \end{array} \left| \begin{array}{l} 2 \text{ vo } 4 = \\ 1 \text{ vo } 4 = \\ 2 \text{ vo } 3 = \end{array} \right| \begin{array}{l} 1/2 \text{ zo } 4 = \\ 1/3 \text{ zo } 3 = \\ 1/4 \text{ zo } 4 = \end{array} \left| \begin{array}{l} 1 = 1/2 \text{ zo } \\ 2 = 1/2 \text{ zo } \\ 1 = 1/4 \text{ zo } \end{array} \right.$$

1) P. kúpil si za 2 krajciare tužku, za 1 kr. písanku a za 1 kr. pero; koľko dostane ešte nazpät zo **4krajciar-nika** (štvoráka)?

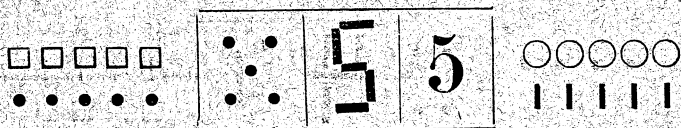
*) Učiteľ také rozdelenie jablka aj v skutočnosti pred dieťkami prevedie, a potom doloží, že sa jedna tretina jednotky nakrátko značí: $1/3$.

2) S. chytil štyroch motýlov, ale mu jeden uletel; koľko motýlov mu ostalo?

3) Malá R. má teprv 2 roky, jej bratříček je ale dvarazy tak starý; koľko rokov má tento?

4) Otec rozdal 4 obrázky svojim deťom; keď každé po jednom obrázku dostalo, koľko detí mal ten otec?

5) Prekrojíme-li jedno jablčko na 4 rovné čiastky, tak jednu takú čiastku **štvrtinou** alebo **štvrtkou** menujeme. Koľko štvrtiek dostaneme teda z jednej upečenej husi? Atď.



$$\begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} \quad \begin{array}{c} 4 + 1 = \\ 1 + 4 = \end{array} \quad \begin{array}{c} 5 - 1 = \\ 5 - 4 = \end{array} \quad \begin{array}{c} 5 = 4 + \\ 5 = 1 + \end{array} \quad \begin{array}{c} 1 \times 4 + 1 = \\ 4 \vee 5 = \end{array}$$

$$\begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} \quad \begin{array}{c} 3 + 2 = \\ 2 + 3 = \end{array} \quad \begin{array}{c} 5 - 2 = \\ 5 - 3 = \end{array} \quad \begin{array}{c} 5 = 3 + \\ 5 = 2 + \end{array} \quad \begin{array}{c} 1 \times 3 + 2 = \\ 3 \vee 5 = 1(2) \end{array}$$

$$\begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} \quad \begin{array}{c} 2 + 2 + 1 = \\ 2 \times 2 + 1 = \end{array} \quad \begin{array}{c} 2 \vee 5 = \end{array}$$

$$\begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} \quad \begin{array}{c} 1 + 1 + 1 + 1 + 1 = \\ 5 \times 1 = \end{array} \quad \begin{array}{c} 1 \vee 5 = \\ 1 = 1/5 \text{ z } 5 = \end{array} \quad \begin{array}{c} 1/5 \text{ z } 5 = \end{array}$$

1.

$$\begin{array}{c} 3 + 1 = \\ 3 + 2 = \\ 2 + 2 = \\ 2 + 3 = \end{array} \quad \begin{array}{c} 5 - 1 = \\ 4 - 2 = \\ 5 - 4 = \\ 5 - 5 = 0 \end{array} \quad \begin{array}{c} 3 = 2 + \\ 4 = 2 + \\ 5 = 3 + \\ 5 = 2 + \end{array} \quad \begin{array}{c} 1 + \cdot = 3 \\ 3 + \cdot = 5 \\ 1 + \cdot = 4 \\ 1 + \cdot = 5 \end{array}$$

2.

$$\begin{array}{c} 3 \times 1 = \\ 2 \times 1 = \\ 4 \times 1 = \\ 5 \times 1 = \end{array} \quad \begin{array}{c} 1 \times 3 = \\ 2 \times 2 = \\ 1 \times 2 = \\ 1 \times 4 = \end{array} \quad \begin{array}{c} 1 \vee 5 = \\ 2 \vee 4 = \\ 2 \vee 5 = \\ 4 \vee 5 = \end{array} \quad \begin{array}{c} 1/2 \text{ z } 2 = \\ 1/4 \text{ z } 4 = \\ 1/2 \text{ z } 4 = \\ 1/5 \text{ z } 5 = \end{array}$$

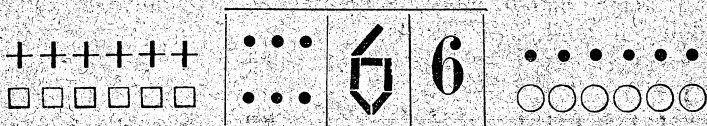
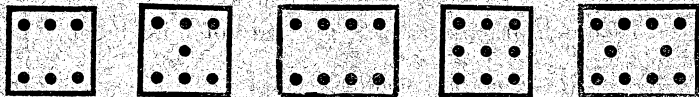
1) Žiak P. si napísal včera 3 riadky a dnes 2; koľko riadkov má napísaných spolu?

2) Istý otec má 5 detí, z nich sú 2 chlapci; koľko dievčienec má ten otec?

3) Koľko 2krajciarových žemlí možno kúpiť za 5 kr. ? a koľko 1krajciarových žemlí?

4) 5 vajec bolo za 5 kr.; za koľko kr. prišlo vajco 1 (2, 3, 4)? Atd.

2. Čísla od 6 — 10.



$$\begin{array}{l} \cdot \cdot \cdot \cdot \cdot \cdot \\ \cdot \cdot \cdot \cdot \cdot \cdot \end{array} \quad \begin{array}{l} 5 + 1 = \\ 1 + 5 = \end{array} \quad \begin{array}{l} 6 - 1 = \\ 6 - 5 = \end{array} \quad \begin{array}{l} 6 = 5 + \\ 6 = 1 + \end{array} \quad \begin{array}{l} 1 \times 5 + 1 = \\ 5 \vee 6 = \end{array}$$

$$\begin{array}{l} \cdot \cdot \cdot \\ \cdot \cdot \cdot \end{array} \quad \begin{array}{l} 4 + 2 = \\ 2 + 4 = \end{array} \quad \begin{array}{l} 6 - 2 = \\ 6 - 4 = \end{array} \quad \begin{array}{l} 6 = 4 + \\ 6 = 2 + \end{array} \quad \begin{array}{l} 1 \times 4 + 2 = \\ 4 \vee 6 = \end{array}$$

$$\begin{array}{l} \cdot \cdot \\ \cdot \cdot \end{array} \quad \begin{array}{l} 3 + 3 = \\ 6 - 3 = \end{array} \quad \begin{array}{l} 6 = 3 + \\ 2 \times 3 = \end{array} \quad \begin{array}{l} 3 \vee 6 = \\ 3 = \frac{1}{2} \text{ zo } 6 \end{array} \quad \begin{array}{l} \frac{1}{2} \text{ zo } 6 = \end{array}$$

$$\begin{array}{l} \cdot \cdot \cdot \\ \cdot \cdot \cdot \end{array} \quad \begin{array}{l} 2 + 2 + 2 = \\ 3 \times 2 = \end{array} \quad \begin{array}{l} 2 \vee 6 = \\ 2 = \frac{1}{3} \text{ zo } 6 \end{array} \quad \begin{array}{l} \frac{1}{3} \text{ zo } 6 = \end{array}$$

$$\begin{array}{l} \cdot \cdot \cdot \cdot \cdot \cdot \\ \cdot \cdot \cdot \cdot \cdot \cdot \end{array} \quad \begin{array}{l} 1 + 1 + 1 + 1 + 1 + 1 = \\ 1 \vee 6 = \end{array} \quad \begin{array}{l} 6 \times 1 = \\ 1 = \frac{1}{6} \text{ zo } 6 \end{array} \quad \begin{array}{l} \frac{1}{6} \text{ zo } 6 = \end{array}$$

1.

$$\begin{array}{l} 3 + 1 = \\ 5 + 1 = \\ 2 + 2 = \\ 3 + 2 = \\ 4 + 2 = \end{array} \quad \begin{array}{l} 1 + 3 = \\ 2 + 3 = \\ 3 + 3 = \\ 1 + 4 = \\ 2 + 4 = \end{array} \quad \begin{array}{l} 4 - 1 = \\ 6 - 1 = \\ 5 - 2 = \\ 6 - 2 = \\ 5 - 3 = \end{array} \quad \begin{array}{l} 6 - 3 = \\ 5 - 4 = \\ 6 - 4 + 3 = \\ 6 - 5 + 4 = \\ 6 - 5 + 5 = \end{array}$$

2.

$$\begin{array}{l|l|l|l}
 6 = 4 + \cdot & 3 \times 2 = & 2 \text{ v } 6 = & \frac{1}{2} \text{ zo } 4 = \\
 5 = 2 + \cdot & 2 \times 3 = & 3 \text{ v } 6 = & \frac{1}{2} \text{ zo } 6 = \\
 6 = 3 + \cdot & 2 \times 2 + 2 = & 2 \text{ vo } 4 = & \frac{1}{4} \text{ zo } 4 = \\
 2 + \cdot = 6 & 1 \times 5 - 2 = & 1 \text{ vo } 3 = & 2 = \frac{1}{3} \text{ zo} \\
 3 + \cdot = 5 & 2 \times 3 - 4 = & 1 \text{ v } 6 = & 3 = \frac{1}{2} \text{ zo}
 \end{array}$$

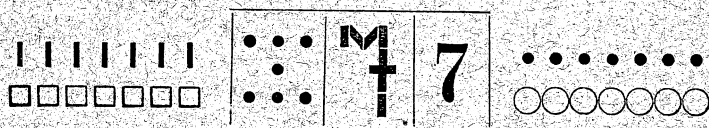
1) V istej maštali sú 2 čierne, 1 biela a 2 strakaté kravy; koľko kráv je tam spolu?

2) P. si od K. vypožičal 6 pier, 2 perá už nazpät vrátil; koľko pier je ešte dlžen K-mu?

3) Jeden praclík je za 2 kr.; za koľko kr. budú 2 (3) praclíky?

$$\begin{array}{l}
 2 \text{ praclíky stoja } 2 \times 2 \text{ kr.} = \\
 3 \text{ " " " } 3 \times 2 \text{ " } =
 \end{array}$$

4) S. mal 6 jablk, z týchto bola $\frac{1}{3}$ hnilých; koľko dobrých jablk mal S.? Atď.



$$\begin{array}{l|l|l|l}
 \begin{array}{c} \cdot \cdot \cdot \\ \cdot \cdot \cdot \end{array} | \cdot & 6 + 1 = & 7 - 1 = & 7 = 6 + \cdot \\
 & 1 + 6 = & 7 - 6 = & 7 = 1 + \cdot \\
 \hline
 & & & 1 \times 6 + 1 = \\
 & & & 6 \text{ v } 7 =
 \end{array}$$

$$\begin{array}{l|l|l|l}
 \begin{array}{c} \cdot \cdot \\ \cdot \cdot \\ \cdot \cdot \end{array} | \cdot & 5 + 2 = & 7 - 2 = & 7 = 5 + \cdot \\
 & 2 + 5 = & 7 - 5 = & 7 = 2 + \cdot \\
 \hline
 & & & 1 \times 5 + 2 = \\
 & & & 5 \text{ v } 7 =
 \end{array}$$

$$\begin{array}{l|l|l|l}
 \begin{array}{c} \cdot \cdot \\ \cdot \cdot \\ \cdot \cdot \end{array} | \cdot & 4 + 3 = & 7 - 3 = & 7 = 4 + \cdot \\
 & 3 + 4 = & 7 - 4 = & 7 = 3 + \cdot \\
 \hline
 & & & 1 \times 4 + 3 = \\
 & & & 4 \text{ v } 7 =
 \end{array}$$

$$\begin{array}{l|l}
 \begin{array}{c} \cdot \cdot \\ \cdot \cdot \\ \cdot \cdot \end{array} | \cdot & 3 + 3 + 1 = \\
 \hline
 & 2 \times 3 + 1 = \\
 & 3 \text{ v } 7 =
 \end{array}$$

$$\begin{array}{l|l}
 \begin{array}{c} \cdot \cdot \cdot \\ \cdot \cdot \cdot \\ \cdot \cdot \cdot \end{array} | \cdot & 2 + 2 + 2 + 1 = \\
 \hline
 & 3 \times 2 + 1 = \\
 & 2 \text{ v } 7 =
 \end{array}$$

$$\begin{array}{l|l}
 \begin{array}{c} \cdot \cdot \cdot \cdot \cdot \cdot \\ \cdot \cdot \cdot \cdot \cdot \cdot \end{array} & 1 + 1 + 1 + 1 + 1 + 1 + 1 = \\
 \hline
 & 7 \times 1 = \\
 & 1 \text{ v } 7 = \\
 & 1 = \frac{1}{7} \text{ zo } 7 =
 \end{array}$$

1.

$$\begin{array}{l} 1 + 2 + 2 = \\ 2 + 1 + 3 = \\ 2 + 2 + 3 = \\ 1 + 3 + 3 = \end{array} \left| \begin{array}{l} 2 + 4 = \\ 3 + 4 = \\ 2 + 5 = \\ 1 + 6 = \end{array} \right| \left| \begin{array}{l} 4 - 1 = \\ 6 - 2 = \\ 5 - 3 = \\ 7 - 3 = \end{array} \right| \left| \begin{array}{l} 7 - 3 + 2 = \\ 7 - 4 + 3 = \\ 2 + 4 - 5 = \\ 3 + 4 - 6 = \end{array} \right|$$

2.

$$\begin{array}{l} 4 = 3 + \\ 5 = 3 + \\ 6 = 3 + \\ 7 = 3 + \end{array} \left| \begin{array}{l} 3 + \\ 3 + \\ 4 + \\ 2 + \end{array} \right| = \begin{array}{l} 5 \\ 6 \\ 7 \\ 7 \end{array} \left| \begin{array}{l} 2 \times 2 = \\ 3 \times 2 = \\ 6 \times 1 = \\ 1 \times 7 = \end{array} \right| \left| \begin{array}{l} 2 \times 2 + 2 = \\ 2 \times 3 + 1 = \\ 3 \times 2 - 3 = \\ 1 \times 7 - 4 = \end{array} \right|$$

3.

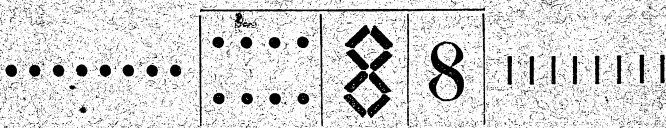
$$\begin{array}{l} 2 \vee 6 = \\ 3 \vee 6 = \\ 4 \vee 7 = \\ 5 \vee 7 = \end{array} \left| \begin{array}{l} \frac{1}{2} \text{ zo } 4 = \\ \frac{1}{2} \text{ zo } 6 = \\ \frac{1}{4} \text{ zo } 4 = \\ \frac{1}{3} \text{ zo } 6 = \end{array} \right| \left| \begin{array}{l} 2 = \frac{1}{3} \text{ zo } \\ 1 = \frac{1}{7} \text{ zo } \\ 3 = \frac{1}{2} \text{ zo } \\ 2 = \frac{1}{2} \text{ zo } \end{array} \right| \left| \begin{array}{l} \frac{1}{2} \text{ zo } 4 + 3 = \\ \frac{1}{3} \text{ zo } 3 + 4 = \\ \frac{1}{2} \text{ zo } 6 - 2 = \\ \frac{1}{4} \text{ zo } 4 + 5 = \end{array} \right|$$

1) Istý chlapec má 4 roky, jeho starší brat je o 3 roky starší; koľko rokov má starší brat?

2) Nepozorný N. zo 7 kr. ztratil na ceste 2 kr.; koľko kr. mu ešte ostalo?

3) **Tydeň** má sedem dní; keď každý deň $\frac{1}{2}$ litra (*l*) mlieka potrebuješ, koľko je to do týždňa $\frac{1}{2}$ litrov? a koľko celých litrov?

4) Čo je siedma časť zo 7 kr.? ... zo 7 metrov (*m*)? a z 1 týždňa? Atď.



$$\begin{array}{l} \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \left| \bullet \right. \begin{array}{l} 7 + 1 = \\ 1 + 7 = \end{array} \left| \begin{array}{l} 8 - 1 = \\ 8 - 7 = \end{array} \right| \left| \begin{array}{l} 8 = 7 + \\ 8 = 1 + \end{array} \right| \left| \begin{array}{l} 1 \times 7 + 1 = \\ 7 \vee 8 = \end{array} \right|$$

$$\begin{array}{l} \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \left| \bullet \right. \begin{array}{l} 6 + 2 = \\ 2 + 6 = \end{array} \left| \begin{array}{l} 8 - 2 = \\ 8 - 6 = \end{array} \right| \left| \begin{array}{l} 8 = 6 + \\ 8 = 2 + \end{array} \right| \left| \begin{array}{l} 1 \times 6 + 2 = \\ 6 \vee 8 = \end{array} \right|$$

$$\begin{array}{l} \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \left| \bullet \right. \begin{array}{l} 5 + 3 = \\ 3 + 5 = \end{array} \left| \begin{array}{l} 8 - 3 = \\ 8 - 5 = \end{array} \right| \left| \begin{array}{l} 8 = 5 + \\ 8 = 3 + \end{array} \right| \left| \begin{array}{l} 1 \times 5 + 3 = \\ 5 \vee 8 = \end{array} \right|$$

$$\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array} \quad 4+4= \quad | \quad 8=4+ \cdot \quad | \quad \begin{array}{c} 4 \vee 8 = \\ 4 = 1/2 z \end{array} \quad | \quad 1/2 z 8 =$$

$$\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array} \quad 3+3+2= \quad | \quad 2 \times 3+2= \quad | \quad 3 \vee 8 =$$

$$\begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} \quad 2+2+2+2= \quad | \quad \begin{array}{c} 2 \vee 8 = \\ 2 = 1/4 z \end{array} \quad | \quad 1/4 z 8 =$$

$$\bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet$$

$$1+1+1+1+1+1+1+1+1= \quad | \quad \begin{array}{c} 1 \vee 8 = \\ 1 = 1/8 z \end{array} \quad | \quad 1/8 z 8 =$$

1.

$$\begin{array}{c} 2+1+2= \\ 1+2+3= \\ 2+3+2= \\ 3+2+3= \end{array} \quad \begin{array}{c} 2+4= \\ 2+5= \\ 1+6= \\ 2+6= \end{array} \quad \begin{array}{c} 4-1-2= \\ 5-2-3= \\ 6-2-3= \\ 7-2-4= \end{array} \quad \begin{array}{c} 7-4= \\ 7-5= \\ 8-6= \\ 8-7= \end{array}$$

2.

$$\begin{array}{c} 3+4-3= \\ 4+4-5= \\ 8-3+3= \\ 8-4+3= \end{array} \quad \begin{array}{c} 6=4+ \cdot \\ 7=3+ \cdot \\ 8=3+ \cdot \\ 8=2+ \cdot \end{array} \quad \begin{array}{c} 5+ \cdot = 7 \\ 4+ \cdot = 8 \\ 2+ \cdot = 7 \\ 1+ \cdot = 8 \end{array} \quad \begin{array}{c} 3 \times 2 = \\ 2 \times 4 = \\ 4 \times 2 = \\ 7 \times 1 = \end{array}$$

3.

$$\begin{array}{c} 2 \times 2+3= \\ 1 \times 8-5= \\ 2 \times \cdot = 6 \\ 1 \times \cdot = 5 \\ \cdot \times 2=4 \end{array} \quad \begin{array}{c} 2 \vee 6 = \\ 2 \vee 8 = \\ 4 \vee 8 = \\ 3 \vee 8 = \\ 5 \vee 8 = \end{array} \quad \begin{array}{c} 1/2 zo 6 = \\ 1/2 z 8 = \\ 1/3 zo 6 = \\ 1/3 z 8 = \\ 2 = 1/4 z \\ 4 = 1/2 z \end{array} \quad \begin{array}{c} 1/2 zo 4+5= \\ 1/3 zo 6+4= \\ 1/8 z 8+7= \\ 1/4 z 8+6= \\ 1/2 z 8+3= \end{array}$$

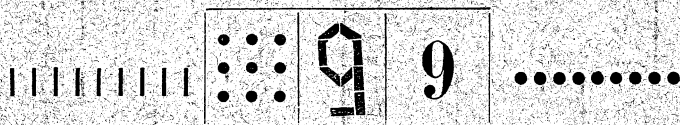
1) B. má 8 orechov vo dvoch vačkoch; koľko orechov môže mať v jednom a koľko v druhom vačku? (Môže mať v jednom 1, v druhom 7; lebo v jednom 2, v druhom 6; alebo — alebo?) Keď má v jednom i druhom vačku po 4 orechoch, hovoríme, že sú orechy na 2 *rovné časti* rozdelené. A kedy sú na *nerovné časti* rozdelené? — Také číslo, ktoré keď na dve rovné časti rozložíme, celé čísla dá, menujeme **párny** číslom. Naproti tomu také číslo, ktoré následkom rozloženia na 2 rovné časti celé čísla nedá, menujeme **nepárny**. Jaké číslo je teda dľa tohoto pravidla: 8, 4, 2, 3, 5, 7, 1?

2) M. má 8 hrušiek a 5 z nich zjiej; A. má 7 hrušiek a zjiej z nich 4; ktorému ostalo viacej — a koľko hrušiek?

3) Koľko krajciarov platia 2 4krajciarniky?

4) Keďže jeden mesiac sú 4 týždne, tak 8 týždňov je koľko mesiacov?

5) Zpomedzi 8 orechov $\frac{1}{4}$ je prázdnych a $\frac{1}{8}$ čiastka je červivých; koľko je dobrých? Atd.



$$\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array} \bullet \quad \begin{array}{l} 8 + 1 = \\ 1 + 8 = \end{array} \quad \begin{array}{l} 9 - 1 = \\ 9 - 8 = \end{array} \quad \begin{array}{l} 9 = 8 + \\ 9 = 1 + \end{array} \quad \begin{array}{l} 1 \times 8 + 1 = \\ 8 \vee 9 = \end{array}$$

$$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \bullet \quad \begin{array}{l} 7 + 2 = \\ 2 + 7 = \end{array} \quad \begin{array}{l} 9 - 2 = \\ 9 - 7 = \end{array} \quad \begin{array}{l} 9 = 7 + \\ 9 = 2 + \end{array} \quad \begin{array}{l} 1 \times 7 + 2 = \\ 7 \vee 9 = \end{array}$$

$$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \bullet \quad \begin{array}{l} 6 + 3 = \\ 3 + 6 = \end{array} \quad \begin{array}{l} 9 - 3 = \\ 9 - 6 = \end{array} \quad \begin{array}{l} 9 = 6 + \\ 9 = 3 + \end{array} \quad \begin{array}{l} 1 \times 6 + 3 = \\ 6 \vee 9 = \end{array}$$

$$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array} \bullet \bullet \quad \begin{array}{l} 5 + 4 = \\ 4 + 5 = \end{array} \quad \begin{array}{l} 9 - 4 = \\ 9 - 5 = \end{array} \quad \begin{array}{l} 9 = 5 + \\ 9 = 4 + \end{array} \quad \begin{array}{l} 1 \times 5 + 4 = \\ 5 \vee 9 = \end{array}$$

$$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array} \bullet \bullet \bullet \quad \bullet \quad \begin{array}{l} 4 + 4 + 1 = \\ 2 \times 4 + 1 = \end{array} \quad \begin{array}{l} 4 \vee 9 = \end{array}$$

$$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \bullet \quad \begin{array}{l} 3 + 3 + 3 = \\ 3 \times 3 = \end{array} \quad \begin{array}{l} 3 \vee 9 = \\ 3 = \frac{1}{3} \text{ z } \end{array} \quad \begin{array}{l} \frac{1}{3} \text{ z } 9 = \end{array}$$

$$\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array} \bullet \quad \begin{array}{l} 2 + 2 + 2 + 2 + 1 = \\ 4 \times 2 + 1 = \end{array} \quad \begin{array}{l} 2 \vee 9 = \end{array}$$



$$1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 = \quad \begin{array}{l} 9 \times 1 = \\ 1 \vee 9 = \end{array} \quad \begin{array}{l} 1 = \frac{1}{9} \text{ z } \\ \frac{1}{9} \text{ z } 9 = \end{array}$$

1.

$$\begin{array}{l}
 2 + 1 + 3 = \\
 1 + 2 + 4 = \\
 3 + 2 + 3 = \\
 2 + 3 + 4 =
 \end{array}
 \left| \begin{array}{l}
 3 + 4 = \\
 4 + 5 = \\
 5 + 3 = \\
 6 + 3 =
 \end{array} \right.
 \left| \begin{array}{l}
 5 - 2 - 2 = \\
 7 - 3 - 1 = \\
 8 - 3 - 4 = \\
 9 - 3 - 4 =
 \end{array} \right.
 \left| \begin{array}{l}
 8 - 4 = \\
 8 - 6 = \\
 9 - 5 = \\
 9 - 6 =
 \end{array} \right.$$

2.

$$\begin{array}{l}
 2 + 5 - 4 = \\
 3 + 6 - 5 = \\
 4 + 5 - 6 = \\
 8 - 7 + 6 = \\
 9 - 8 + 7 =
 \end{array}
 \left| \begin{array}{l}
 7 = 4 + . \\
 8 = 2 + . \\
 8 = 5 + . \\
 9 = 3 + . \\
 9 = 1 + .
 \end{array} \right.
 \left| \begin{array}{l}
 2 + 1 + 2 + 3 = \\
 3 + 2 + 3 + 1 = \\
 9 - 2 - 3 - 4 = \\
 7 + 2 - 6 + 5 = \\
 8 - 5 + 6 - 7 =
 \end{array} \right.$$

3.

$$\begin{array}{l}
 7 + . = 9 \\
 5 + . = 8 \\
 4 + . = 9 \\
 3 + . = 7
 \end{array}
 \left| \begin{array}{l}
 3 \times 3 = \\
 1 \times 6 = \\
 2 \times 3 = \\
 2 \times 4 =
 \end{array} \right.
 \left| \begin{array}{l}
 2 \times 2 + 3 = \\
 7 \times 1 + 2 = \\
 3 \times 2 - 4 = \\
 8 \times 1 - 5 =
 \end{array} \right.
 \left| \begin{array}{l}
 6 = 2 \times . \\
 8 = 2 \times . \\
 9 = 3 \times . \\
 8 = 4 \times .
 \end{array} \right.$$

4.

$$\begin{array}{l}
 2 \text{ vo } 4 = \\
 2 \text{ v } 6 = \\
 3 \text{ v } 6 = \\
 3 \text{ v } 9 =
 \end{array}
 \left| \begin{array}{l}
 2 \text{ v } 8 = \\
 4 \text{ v } 8 = \\
 3 \text{ v } 7 = \\
 5 \text{ v } 9 =
 \end{array} \right.
 \left| \begin{array}{l}
 \frac{1}{2} \text{ zo } 4 = \\
 \frac{1}{2} \text{ z } 8 = \\
 3 = \frac{1}{3} \text{ z } \\
 2 = \frac{1}{3} \text{ zo }
 \end{array} \right.
 \left| \begin{array}{l}
 \frac{1}{3} \text{ zo } 6 + 6 = \\
 \frac{1}{4} \text{ z } 8 + 5 = \\
 \frac{1}{3} \text{ z } 9 - 2 = \\
 \frac{1}{2} \text{ z } 8 - 3 =
 \end{array} \right.$$

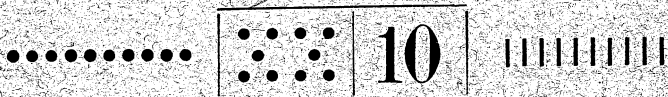
1) Istý chlapec dostával od otca každý deň 1 kr. a od matky v nedelu 2 kr.; koľko kr. dostal každý týždeň od svojích rodičov?

2) S. mal 9 orechov, z týchto dal bratrovi 3 a sestre 2 orechy; koľko orechov ostalo ešte jemu samému?

3) 1 liter (*l*) zobraňého mlieka stojí 3 kr.; čo stoja 3 (2) *l*? (3 litre sú 3-krát 1 liter; 3 litre stoja 3×3 kr., t. j. 9 kr. atď.).

4) Méter (*m*) šnôrky stojí 2 kr.; koľko kr. príjde za 4 (3, 2) *m*?

5) Kilogram (*kg*) zemiakov dávajú za 9 kr.; za koľko krajciarov prišla by $\frac{1}{3}$ ($\frac{1}{2}$) *kg*? Atď.



$$\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array} \left| \begin{array}{c} \bullet \\ \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array} \right. \cdot \begin{array}{l} 9+1= \\ 1+9= \end{array} \left| \begin{array}{c} 10-1= \\ 10-9= \end{array} \right| \begin{array}{c} 10=9+ \\ 10=1+ \end{array} \left| \begin{array}{c} 1 \times 9+1= \\ 9 \vee 10= \end{array} \right.$$

$$\begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array} \left| \begin{array}{c} \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \end{array} \right. \cdot \begin{array}{l} 8+2= \\ 2+8= \end{array} \left| \begin{array}{c} 10-2= \\ 10-8= \end{array} \right| \begin{array}{c} 10=8+ \\ 10=2+ \end{array} \left| \begin{array}{c} 1 \times 8+2= \\ 8 \vee 10= \end{array} \right.$$

$$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \left| \begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \right. \cdot \begin{array}{l} 7+3= \\ 3+7= \end{array} \left| \begin{array}{c} 10-3= \\ 10-7= \end{array} \right| \begin{array}{c} 10=7+ \\ 10=3+ \end{array} \left| \begin{array}{c} 1 \times 7+3= \\ 7 \vee 10= \end{array} \right.$$

$$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \left| \begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \right. \cdot \begin{array}{l} 6+4= \\ 4+6= \end{array} \left| \begin{array}{c} 10-4= \\ 10-6= \end{array} \right| \begin{array}{c} 10=6+ \\ 10=4+ \end{array} \left| \begin{array}{c} 1 \times 6+4= \\ 6 \vee 10= \end{array} \right.$$

$$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \left| \begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \right. \cdot \begin{array}{l} 5+5= \\ 10-5= \end{array} \left| \begin{array}{c} 10=5+ \\ 2 \times 5= \end{array} \right| \begin{array}{c} 5 = \frac{1}{2} z \\ \frac{1}{2} z = 10 = \end{array}$$

$$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \left| \begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \right. \cdot \begin{array}{c} 4+4+2= \\ 2 \times 4+2= \\ 4 \vee 10= \end{array}$$

$$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \left| \begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \right. \cdot \begin{array}{c} 3+3+3+1= \\ 3 \times 3+1= \\ 3 \vee 10= \end{array}$$

$$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \left| \begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \right. \cdot \begin{array}{c} 2+2+2+2+2= \\ 5 \times 2= \\ 2 \vee 10= \\ 2 = \frac{1}{5} z \\ \frac{1}{5} z = 10 = \end{array}$$

$$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \left| \begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} \right. \cdot \begin{array}{c} 1+1+1+1+1+1+1+1+1+1= \\ 1 \vee 10= \\ 1 = \frac{1}{10} z \\ \frac{1}{10} z = 10 = \end{array}$$

1.

$$\begin{array}{c} 3+1+2= \\ 2+3+3= \\ 3+4+2= \\ 3+3+3= \\ 4+2+4= \\ 2+4+3= \end{array} \left| \begin{array}{c} 4+5= \\ 5+5= \\ 2+6= \\ 3+7= \\ 1+9= \\ 2+7= \end{array} \right| \left| \begin{array}{c} 6-2-3= \\ 8-3-4= \\ 9-4-3= \\ 10-4-5= \\ 10-2-6= \\ 10-3-5= \end{array} \right| \left| \begin{array}{c} 8-6= \\ 9-5= \\ 9-7= \\ 10-8= \\ 10-9= \\ 10-10= \end{array} \right.$$

2.

$3 + 4 - 3 =$	$8 = 5 + .$	$2 + 2 + 3 - 4 =$
$4 + 4 - 5 =$	$9 = 4 + .$	$3 + 4 + 3 - 6 =$
$5 + 5 - 4 =$	$10 = 6 + .$	$5 - 3 + 6 - 3 =$
$8 - 3 + 4 =$	$10 = 4 + .$	$8 - 3 + 4 - 7 =$
$10 - 6 + 5 =$	$10 = 2 + .$	$4 + 6 - 9 + 8 =$

3.

$8 + . = 10$	$3 \times 1 =$	$2 \times 4 + 2 =$	$4 = 2 \times .$
$5 + . = 9$	$4 \times 2 =$	$3 \times 2 + 3 =$	$6 = 3 \times .$
$4 + . = 10$	$5 \times 2 =$	$3 \times 3 + 1 =$	$8 = 4 \times .$
$3 + . = 8$	$2 \times 3 =$	$8 \times 1 - 2 =$	$7 = 1 \times .$
$2 + . = 9$	$1 \times 6 =$	$10 \times 1 - 7 =$	$10 = 2 \times .$

4.

$1 \text{ v } 5 =$	$4 \text{ v } 8 =$	$\frac{1}{2} \text{ zo } 2 =$	$\frac{1}{2} \text{ zo } 4 + 8 =$
$1 \text{ v } 8 =$	$4 \text{ v } 10 =$	$\frac{1}{3} \text{ zo } 6 =$	$\frac{1}{8} \text{ z } 8 + 6 =$
$2 \text{ vo } 4 =$	$5 \text{ v } 10 =$	$\frac{1}{4} \text{ zo } 4 =$	$\frac{1}{5} \text{ z } 5 + 9 =$
$2 \text{ v } 8 =$	$6 \text{ v } 6 =$	$\frac{1}{4} \text{ z } 8 =$	$\frac{1}{5} \text{ z } 10 + 7 =$
$2 \text{ v } 6 =$	$7 \text{ v } 9 =$	$2 = \frac{1}{2} \text{ zo}$	$\frac{1}{2} \text{ z } 8 - 2 =$
$2 \text{ v } 10 =$	$8 \text{ v } 10 =$	$2 = \frac{1}{3} \text{ zo}$	$\frac{1}{3} \text{ z } 9 - 1 =$
$3 \text{ v } 9 =$	$9 \text{ v } 10 =$	$5 = \frac{1}{2} \text{ z}$	$\frac{1}{2} \text{ z } 10 - 4 =$
$3 \text{ v } 6 =$	$10 \text{ v } 10 =$	$2 = \frac{1}{5} \text{ z}$	$\frac{1}{2} \text{ z } 6 - 2 =$

1) Gazdina má mlieka v jednom hrnci 3 litre, v druhom 2, v treťom 4 a vo štvrtom 1 liter; koľko litrov má všetkeho mlieka?

2) Istý chlapec napísal na tabuľku 10 riadkov. Z tých 10 riadkov 3 zotrie a 2 riadky na novo napíše; koľko má teraz napísaných riadkov?

3) Desať krajciarov = jeden **desiatnik**. Chlapec má desiatnik; keď kúpi 3 litre čerešien, a keď za liter platí 3 kr., koľko kr. mu ešte zvýši?

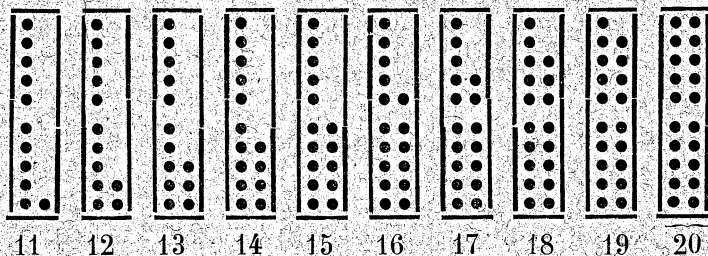
4) Jeden *méter* delíme na 10 **decimetrov** (*dm*); koľkokrát je tedy 1 *dm* menší než 1 *méter*?

5) Tak tiež delíme *liter* (*l*) na 10 **decilitrov** (*dl*); koľko *dl* je tedy $\frac{1}{5}$ ($\frac{1}{10}$) *l*? Atd.

Oddiel druhý.

Kruh čísel od 1 po 20.

(Znázornenie a označenie čísel od 1—20.)



$$11 \times 1 = \quad | \quad 1 \text{ v } 11 =$$

	$10 + 1 =$	$11 = 10 +$	$2 \times 5 + 1 =$ $5 \text{ v } 11 =$
	$1 + 10 =$	$11 = 1 +$	
	$11 - 1 =$	$1 \times 10 + 1 =$	
	$11 - 10 =$	$10 \text{ v } 11 =$	

	$9 + 2 =$	$11 = 9 +$	$3 \times 3 + 2 =$ $3 \text{ v } 11 =$
	$2 + 9 =$	$11 = 2 +$	
	$11 - 2 =$	$1 \times 9 + 2 =$	
	$11 - 9 =$	$9 \text{ v } 11 =$	

	$8 + 3 =$	$11 = 8 +$	$2 \times 4 + 3 =$ $4 \text{ v } 11 =$
	$3 + 8 =$	$11 = 3 +$	
	$11 - 3 =$	$1 \times 8 + 3 =$	
	$11 - 8 =$	$8 \text{ v } 11 =$	

$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \end{array}$	$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array}$	$7+4=$	$11-4=$	$11=7+$	$1 \times 7 + 4 =$
$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \end{array}$	$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array}$	$4+7=$	$11-7=$	$11=4+$	$7 \vee 11 =$

$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \end{array}$	$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array}$	$6+5=$	$11-5=$	$11=6+$	$1 \times 6 + 5 =$
$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \end{array}$	$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array}$	$5+6=$	$11-6=$	$11=5+$	$6 \vee 11 =$

$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array}$	$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array}$	$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array}$	$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array}$	$\begin{array}{c} \bullet \bullet \\ \bullet \bullet \end{array}$	\bullet	$5 \times 2 + 1 =$	$2 \vee 11 =$
---	---	---	---	---	-----------	--------------------	---------------

1.

Napište čísla poriadkom od 1-ho až po 11, a nazpät od 11 po 1!

Takto: 1, 2, 3 11, 10, 9 atd.

2.

Napište všetky párne čísla od 2-och až po 10 . . . a nazpät!

3.

Napište všetky nepárne čísla od 1-ho až po 11, a nazpät!

4.

Rozložte **11** na čiastky: a) 5 rovných a 1 nerovnú, — b) 3 rovné a 1 nerovnú, — c) 2 rovné a 1 nerovnú na 2 spôsoby.

Takto: $2 + 2 + 2 + 2 + 2 + 1 = 11$;

$3 + 3 + 3 + 2 = 11$;

$4 + 4 + 3 = 11$, alebo:

$5 + 5 + 1 = 11$.

5.

$6+1=$	$8+2=$	$8+3=$	$9+2=$	$1+10=$
$1+4=$	$5+5=$	$8+2=10$	$2+9=$	$6+5=$
$8+1=$	$3+7=$	$10+1=11$	$4+7=$	$5+6=$
$1+7=$	$6+4=$	$8+3=11$	$7+4=$	$11+0=$
$9+1=$	$4+6=$	tak aj $3+8$	$10+1=$	$0+11=$

6.

$4-1=$	$10-2=$	$11-3=$	$11-2=$	$11-9=$
$6-1=$	$10-4=$	$11-1=10$	$11-4=$	$11-7=$
$9-1=$	$10-7=$	$10-2=8$	$11-8=$	$11-5=$
$7-1=$	$10-3=$	$11-3=8$	$11-6=$	$10-9=$
$10-1=$	$10-8=$		$11-1=$	$10-5=$

7.

$1 + 1 - 2 =$	$9 - 7 + 6 =$	$2 \times 2 =$	$6 = 3 \times$
$3 + 2 - 3 =$	$10 - 8 + 7 =$	$2 \times 3 =$	$8 = 4 \times$
$2 + 3 - 4 =$	$10 - 9 + 8 =$	$2 \times 4 =$	$9 = 3 \times$
$5 + 4 - 5 =$	$11 - 10 + 9 =$	$2 \times 5 =$	$10 = 5 \times$
$4 + 5 - 6 =$	$11 - 9 + 9 =$	$3 \times 3 =$	$4 = 2 \times$

8.

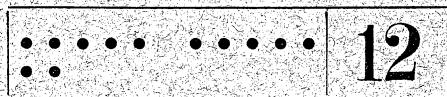
$2 \text{ vo } 4 =$	$3 \text{ v } 6 =$	$1/2 \text{ zo } 2 =$	$1/4 \text{ z } 8 =$	$2 = 1/3 \text{ zo}$
$2 \text{ v } 6 =$	$3 \text{ v } 9 =$	$1/2 \text{ zo } 4 =$	$1/5 \text{ z } 5 =$	$3 = 1/3 \text{ z}$
$2 \text{ v } 8 =$	$3 \text{ v } 11 =$	$1/2 \text{ zo } 6 =$	$1/5 \text{ z } 10 =$	$1 = 1/3 \text{ zo}$
$2 \text{ v } 10 =$	$4 \text{ v } 8 =$	$1/2 \text{ z } 8 =$	$1/6 \text{ zo } 6 =$	$1 = 1/4 \text{ zo}$
$2 \text{ v } 11 =$	$4 \text{ v } 11 =$	$1/2 \text{ z } 10 =$	$1/8 \text{ z } 8 =$	$2 = 1/4 \text{ z}$
$3 \text{ vo } 3 =$	$5 \text{ v } 11 =$	$1/3 \text{ zo } 6 =$	$1/10 \text{ z } 10 =$	$2 = 1/5 \text{ z}$

1) Na jednej roli vysadili 7 vriec a na druhej 4 vrecia zemiakov; koľko vriec vysadili spolu?

2) Istá žena mala 11 kureniec; z týchto sa 1 stratilo a 5 predala na trhu; koľko jej ešte ostalo kureniec?

3) Ktorý hospodár má 5 párov koní a 1 žrieba, koľko ten má kusov dohromady?

4) 11 krížov žita dalo 11 hektolitrov (*hl*) čistého žita; koľko *hl* dal jeden a jeden kríž? Atď.

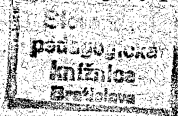






$$12 \times 1 = \quad | \quad 1 \text{ vo } 12 =$$





$10 + 2 =$	$12 = 10 + \quad =$	$2 \times 5 + 2 =$
$2 + 10 =$	$12 = 2 + \quad =$	
$12 - 2 =$	$1 \times 10 + 2 =$	
$12 - 10 =$	$10 \text{ vo } 12 =$	

$9 + 3 =$	$12 = 9 + \quad =$	$4 \times 3 =$
$3 + 9 =$	$12 = 3 + \quad =$	
$12 - 3 =$	$1 \times 9 + 3 =$	
$12 - 9 =$	$9 \text{ vo } 12 =$	

$8 + 4 =$	$12 = 8 + \quad =$	$3 \times 4 =$
$4 + 8 =$	$12 = 4 + \quad =$	
$12 - 4 =$	$1 \times 8 + 4 =$	
$12 - 8 =$	$8 \text{ vo } 12 =$	



		$7 + 5 =$	$12 - 5 =$	$12 = 7 +$	$1 \times 7 + 5 =$
		$5 + 7 =$	$12 - 7 =$	$12 = 5 +$	$7 \text{ vo } 12 =$

		$6 + 6 =$	$6 \text{ vo } 12 =$	$6 \times 2 =$
		$2 \times 6 =$	$12 = 6 +$	$2 \text{ vo } 12 =$
		$12 - 6 =$	$1/2 \text{ zo } 12 =$	$1/6 \text{ zo } 12 =$

1.

Príčitujte striedavo a opätovne číslo 2 a odčítajte číslo 1 počnúc od 1-eho až po 12.

Takto: $1 + 2 = 3$
 $3 - 1 = 2$
 $2 + 2 = 4$
 $4 - 1 = 3$
 $3 + 2 =$ atď. až po 12.

2.

Rozložte **12** na čiastky: a) 6 rovných, — b) 4 rovné, — c) 3 rovné, — d) 2 rovné a 1 nerovnú.

Takto: $2 + 2 + 2 + 2 + 2 + 2 = 12$
 $3 + 3 + 3 + 3 = 12$ atď.

3.

$3 + 2 =$	$9 + 1 =$	$2 + 8 =$	$6 + 6 =$	$10 + = 12$
$2 + 5 =$	$9 + 2 =$	$7 + 5 =$	$2 + 8 =$	$7 + = 11$
$7 + 2 =$	$1 + 8 =$	$4 + 8 =$	$9 + 3 =$	$5 + = 12$
$2 + 4 =$	$2 + 10 =$	$6 + 2 =$	$1 + 9 =$	$6 + = 10$
$8 + 2 =$	$1 + 7 =$	$2 + 7 =$	$8 + 4 =$	$3 + = 12$

4.

$6 - 2 =$	$9 + 1 + 2 =$	$11 - 3 =$	$11 - 8 =$	$12 - 1 =$
$8 - 2 =$	$11 - 1 - 2 =$	$11 - 1 =$	$12 - 2 =$	$12 - 7 =$
$10 - 2 =$	$7 + 2 + 2 =$	$11 - 4 =$	$12 - 4 =$	$12 - 9 =$
$11 - 2 =$	$9 - 1 + 2 =$	$11 - 7 =$	$12 - 5 =$	$12 - 6 =$
$12 - 2 =$	$8 + 2 - 1 =$	$11 - 9 =$	$12 - 3 =$	$12 - 8 =$

5.

$1 + 2 - 3 =$	$10 - 8 + 7 =$	$3 \times 2 =$	$6 = 2 \times$
$3 + 3 - 4 =$	$11 - 8 + 9 =$	$5 \times 2 =$	$10 = 2 \times$
$2 + 4 - 5 =$	$11 - 9 + 8 =$	$4 \times 2 =$	$9 = 3 \times$
$5 + 5 - 6 =$	$12 - 6 + 5 =$	$4 \times 3 =$	$12 = 3 \times$
$4 + 6 - 7 =$	$12 - 7 + 4 =$	$9 \times 1 =$	$12 = 2 \times$

6.

2 v 6 =	2 v 10 =	$\frac{1}{2}$ zo 12 =	$\frac{1}{2}$ zo 6 + 6 =
3 v 6 =	2 vo 12 =	$\frac{1}{4}$ zo 12 =	$\frac{1}{3}$ zo 6 + 9 =
2 v 8 =	3 vo 12 =	$\frac{1}{3}$ zo 12 =	$\frac{1}{5}$ z 10 + 10 =
4 v 8 =	4 vo 12 =	2 = $\frac{1}{6}$ zo	$\frac{1}{10}$ z 10 + 11 =
3 v 9 =	5 vo 12 =	1 = $\frac{1}{12}$ zo	$\frac{1}{3}$ z 9 - 2 =
5 v 10 =	6 vo 12 =	2 = $\frac{1}{4}$ z	$\frac{1}{2}$ z 8 - 3 =

1) Ktosi kúpil bravca za 5 zl.; na jeho vykrmenie spotrebovalo sa otrubov za 3 zl. a kukurice za 5 zl., koľko stál vykrmený bravec?

2) **Rok** má 12 mesiacov; kde školské prázdniny 3 mesiace trvajú, koľko mesiacov sa tam do školy chodí?

3) V škole si denne predpoludním 4 a odopoludní 2 hodiny; koľko hodín stráviš v škole za 2 dni?

4) 12 kusov menujeme **tuctom**; koľko kusov je $\frac{1}{2}$ ($\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{6}$) tucta?

5) $\frac{1}{2}$ ($\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{6}$) roka je koľko mesiacov? Atď.



$$13 \times 1 = \quad | \quad 1 \text{ vo } 13 =$$

		$10 + 3 =$	$13 = 10 +$	$3 + 10 =$	$13 = 3 +$	$2 \times 5 + 3 =$
		$13 - 3 =$	$1 \times 10 + 3 =$	$5 \text{ vo } 13 =$		
$13 - 10 =$		$10 \text{ vo } 13 =$				

		$9 + 4 =$	$13 - 4 =$	$13 = 9 +$	$1 \times 9 + 4 =$
		$4 + 9 =$	$13 - 9 =$	$13 = 4 +$	$9 \text{ vo } 13 =$

		$8 + 5 =$	$13 - 5 =$	$13 = 8 +$	$1 \times 8 + 5 =$
		$5 + 8 =$	$13 - 8 =$	$13 = 5 +$	$8 \text{ vo } 13 =$

		$7 + 6 =$	$13 - 6 =$	$13 = 7 +$	$1 \times 7 + 6 =$
		$6 + 7 =$	$13 - 7 =$	$13 = 6 +$	$7 \text{ vo } 13 =$

		$2 \times 6 + 1 =$	$6 \text{ vo } 13 =$	$4 \times 3 + 1 =$	$3 \text{ vo } 13 =$
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		$3 \times 4 + 1 =$	$4 \text{ vo } 13 =$	$6 \times 2 + 1 =$	$2 \text{ vo } 13 =$
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1.

Pripočítajte 3 a odčítajte 2 počna od 1 — 13!

Takto: $1 + 3 = 4$

$4 - 2 = 2$

$2 + 3 = 5$

$5 - 2 =$ atď.

2.

Rozložte **13** na čiastky: a) 6 rovných a 1 nerovnú, —
b) 4 rovné a 1 nerovnú, — c) 3 rovné a 1 nerovnú, —
d) 2 rovné a 1 nerovnú na dvoji spôsob.

3.

$6 + 3 =$	$10 + 3 =$	$7 + 3 =$	$9 + 2 =$	$9 + \dots = 10$
$3 + 5 =$	$3 + 9 =$	$5 + 7 =$	$3 + 10 =$	$2 + \dots = 11$
$3 + 7 =$	$8 + 2 =$	$6 + 7 =$	$5 + 8 =$	$10 + \dots = 12$
$9 + 3 =$	$2 + 8 =$	$3 + 6 =$	$3 + 8 =$	$2 + \dots = 12$
$8 + 3 =$	$8 + 5 =$	$7 + 6 =$	$4 + 9 =$	$9 + \dots = 13$

4.

$7 - 3 =$	$8 - 2 - 3 =$	$11 - 4 =$	$12 - 7 =$	$13 - 4 =$
$9 - 3 =$	$10 + 1 + 2 =$	$11 - 8 =$	$12 - 9 =$	$13 - 5 =$
$12 - 3 =$	$10 - 3 + 2 =$	$11 - 6 =$	$12 - 8 =$	$13 - 9 =$
$11 - 3 =$	$11 + 2 - 3 =$	$11 - 9 =$	$12 - 6 =$	$13 - 6 =$
$13 - 3 =$	$12 - 2 + 3 =$	$12 - 4 =$	$13 - 7 =$	$13 - 8 =$

5.

$4 + 7 - 8 =$	$11 - 9 + 8 =$	$1 \times 3 =$	$6 = 3 \times$
$5 + 6 - 7 =$	$12 - 10 + 9 =$	$2 \times 3 =$	$8 = 4 \times$
$2 + 5 - 6 =$	$12 - 8 + 8 =$	$3 \times 3 =$	$10 = 5 \times$
$3 + 4 - 5 =$	$13 - 7 + 5 =$	$4 \times 3 =$	$9 = 3 \times$
$1 + 3 - 4 =$	$13 - 9 + 8 =$	$2 \times 2 =$	$12 = 4 \times$

6.

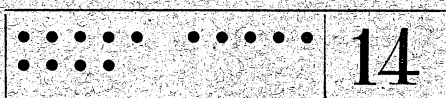
$3 \vee 6 =$	$2 \vee 10 =$	$\frac{1}{2} \text{ zo } 6 =$	$\frac{1}{5} \text{ z } 10 + 8 =$
$2 \vee 8 =$	$2 \vee 11 =$	$\frac{1}{4} \text{ z } 8 =$	$\frac{1}{6} \text{ zo } 12 + 11 =$
$4 \vee 8 =$	$2 \text{ vo } 12 =$	$\frac{1}{2} \text{ zo } 12 =$	$\frac{1}{7} \text{ zo } 7 + 11 =$
$1 \vee 8 =$	$3 \text{ vo } 12 =$	$3 = \frac{1}{4} \text{ zo}$	$\frac{1}{2} \text{ z } 10 - 2 =$
$3 \vee 9 =$	$6 \text{ vo } 12 =$	$3 = \frac{1}{3} \text{ z}$	$\frac{1}{2} \text{ z } 8 - 3 =$
$2 \vee 10 =$	$7 \text{ vo } 13 =$	$6 = \frac{1}{2} \text{ zo}$	$\frac{1}{3} \text{ zo } 12 - 1 =$

1) Jedna krava dáva ráno 6 litrov mlieka, na poludnie 3 a večer 4 litre; koľko litrov dáva denne?

2) Z 13 metrov dlhého kusu súkna odstrihli najprv 3 m, potom odstrihli ešte 3-krát toľko; koľko m zvýšilo ešte?

3) B. má 3 4krajciarniky a 1 kr.; koľko krajciarov má spolu?

4) 13 decimetrov koľko je to celých metrov a koľko *dm*? Atď.



$$14 \times 1 = \quad | \quad 1 \text{ vo } 14 =$$

	$10 + 4 =$	$14 = 10 +$	$\left. \begin{array}{l} 2 \times 5 + 4 = \\ 5 \text{ vo } 14 = \end{array} \right\}$
	$4 + 10 =$	$14 = 4 +$	
	$14 - 4 =$	$1 \times 10 + 4 =$	
	$14 - 10 =$	$10 \text{ vo } 14 =$	

	$9 + 5 =$	$14 - 5 =$	$14 = 9 +$	$\left. \begin{array}{l} 1 \times 9 + 5 = \\ 9 \text{ vo } 14 = \end{array} \right\}$
	$5 + 9 =$	$14 - 9 =$	$14 = 5 +$	

	$8 + 6 =$	$14 - 6 =$	$14 = 8 +$	$\left. \begin{array}{l} 1 \times 8 + 6 = \\ 8 \text{ vo } 14 = \end{array} \right\}$
	$6 + 8 =$	$14 - 8 =$	$14 = 6 +$	

	$7 + 7 =$	$14 - 7 =$	$14 = 7 +$	$\left. \begin{array}{l} 1 \times 7 = \\ 7 \text{ vo } 14 = \end{array} \right\}$
	$2 \times 7 =$	$7 \text{ vo } 14 =$	$1/2 \text{ zo } 14 =$	

	$2 \times 6 + 2 =$	$6 \text{ vo } 14 =$	$4 \times 3 + 2 =$	$3 \text{ vo } 14 =$
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	$3 \times 4 + 2 =$	$7 \times 2 =$	$2 = 1/7 \text{ zo } 14$
	$4 \text{ zo } 14 =$	$2 \text{ vo } 14 =$	$1/7 \text{ zo } 14 =$

1.

Pričítajte 4 a odčítajte 3 počna od 1—14!

2.

Rozložte 14 na čiastky: a) 7 rovných, — b) 4 rovné a 1 ner., — c) 3 r. 1 ner., — d) 2 r. a 1 ner. na 2 spôs.

3.

$5+4=$	$12+2=$	$11+2=$	$9+3=$	$7+7=$
$4+7=$	$2+2=4$	$3+11=$	$5+9=$	$8+4=$
$6+4=$	$10+4=14$	$13+1=$	$6+6=$	$6+8=$
$4+4=$	$12+2=14$	$1+12=$	$8+6=$	$5+6=$
$10+4=$	tak aj $2+12$	$11+3=$	$4+9=$	$9+5=$

4.

$9-4=$	$14-3=$	$13-2=$	$11-5=$	$14-6=$
$12-4=$	$4-3=1$	$14-1=$	$12-6=$	$14-8=$
$11-4=$	$10+1=11$	$14-2=$	$12-8=$	$14-5=$
$13-4=$	$14-3=11$	$13-1=$	$13-7=$	$14-9=$
$14-4=$		$12-2=$	$13-5=$	$14-7=$

5.

$1+4-5=$	$14-4+3=$	$2 \times 6=$	$10=2 \times$
$2+6-7=$	$13-2+1=$	$2 \times 7=$	$9=3 \times$
$3+5-6=$	$14-3+3=$	$3 \times 4=$	$12=3 \times$
$4+8-9=$	$12-2+1=$	$5 \times 2=$	$14=2 \times$
$5+7-8=$	$13-1+2=$	$8 \times 1=$	$14=7 \times$

6.

$2 \text{ vo } 2=$	$8 \text{ v } 8=$	$\frac{1}{3} \text{ zo } 6=$	$\frac{1}{4} \text{ zo } 12+10=$
$3 \text{ v } 9=$	$1 \text{ vo } 14=$	$\frac{1}{8} \text{ z } 8=$	$\frac{1}{3} \text{ zo } 12-3=$
$6 \text{ vo } 12=$	$2 \text{ vo } 14=$	$\frac{1}{6} \text{ zo } 12=$	$\frac{1}{3} \text{ z } 9+11=$
$3 \text{ vo } 12=$	$7 \text{ vo } 14=$	$2= \frac{1}{7} \text{ zo}$	$\frac{1}{2} \text{ zo } 12-4=$
$5 \text{ v } 10=$	$6 \text{ vo } 14=$	$7= \frac{1}{2} \text{ zo}$	$\frac{1}{6} \text{ zo } 6+13=$
$4 \text{ vo } 12=$	$5 \text{ vo } 12=$	$2= \frac{1}{5} \text{ z}$	$\frac{1}{2} \text{ z } 10-3=$

1) P. si chce kúpiť za 10 kr. maďarskú knižočku, za 2 kr. čieridla, za 2 kr. pero a písanku; koľko potrebuje k tomu peňazí?

2) Ty máš teraz 6 (7) rokov; za koľko rokov budeš mať 14 rokov?

3) Koľko dní je vo dvoch týždňoch?

4) Jeden kilogram soli je za 14 kr.; čo stojí $\frac{1}{2}$ ($\frac{1}{4}$) kg?

5) Jestli 1 méter súkna stojí 2 zl., čo stoja 2 (3, 4, 5, 6, 7) m? koľkokrát toľko? Atd.



$$15 \times 1 = \quad | \quad 1 \vee 15 =$$

	$10 + 5 =$	$15 = 10 +$	$3 \times 5 =$ $5 \vee 15 =$ $\frac{1}{3} \text{ z } 15 =$
	$5 + 10 =$	$15 = 5 +$	
	$15 - 5 =$	$1 \times 10 + 5 =$	
	$15 - 10 =$	$10 \vee 15 =$	

	$9 + 6 =$	$15 = 9 +$	$2 \times 6 + 3 =$ $6 \vee 15 =$ $\frac{1}{5} \text{ z } 15 =$
	$6 + 9 =$	$15 = 6 +$	
	$15 - 6 =$	$1 \times 9 + 6 =$	
	$15 - 9 =$	$9 \vee 15 =$	

	$8 + 7 =$	$15 - 7 =$	$15 = 8 +$	$1 \times 8 + 7 =$ $8 \vee 15 =$
	$7 + 8 =$	$15 - 8 =$	$15 = 7 +$	

	$3 \times 4 + 3 =$	$4 \vee 15 =$
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	$7 \times 2 + 1 =$	$2 \vee 15 =$	$2 \times 7 + 1 =$	$7 \vee 15 =$
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1.

Pričítajte 5 a odčítajte 4 počna od 1—15?

2.

Rozložte **15** na čiastky : a) 5 rovných, — b) 3 rovné,
— c) 7 r. a 1 ner., — d) 3 r. a 1 ner., — e) 2 r. a 1 ner.
na 2 spôsoby.

3.

$3 + 5 =$	$5 + 5 =$	$14 + 1 =$	$6 + 9 =$	$7 + \dots = 12$
$5 + 2 =$	$9 + 5 =$	$2 + 11 =$	$7 + 7 =$	$7 + \dots = 15$
$4 + 5 =$	$5 + 7 =$	$13 + 2 =$	$8 + 7 =$	$5 + \dots = 15$
$5 + 6 =$	$10 + 5 =$	$3 + 12 =$	$6 + 6 =$	$6 + \dots = 14$
$8 + 5 =$	$9 + 4 =$	$12 + 2 =$	$9 + 6 =$	$2 + \dots = 15$

4.

$8 - 5 =$	$15 - 12 =$	$15 - 13 =$	$12 - 8 =$	$15 - 7 =$
$11 - 5 =$	$5 - 2 = 3$	$15 - 11 =$	$13 - 7 =$	$15 - 9 =$
$12 - 5 =$	$10 - 10 = 0$	$15 - 12 =$	$14 - 6 =$	$15 - 3 =$
$14 - 5 =$		$15 - 14 =$	$15 - 2 =$	$15 - 8 =$
$15 - 5 =$	$15 - 12 = 3$	$15 - 10 =$	$15 - 4 =$	$15 - 6 =$

5.

$3 + 6 = 7$	$15 - 14 + 13 =$	$2 \times 2 =$	$6 = 2 \times$
$2 + 7 = 8$	$14 - 13 + 12 =$	$4 \times 2 =$	$10 = 2 \times$
$5 + 8 = 9$	$14 - 12 + 11 =$	$6 \times 2 =$	$14 = 2 \times$
$4 + 9 = 10$	$13 - 11 + 10 =$	$3 \times 3 =$	$12 = 3 \times$
$1 + 5 = 6$	$15 - 15 + 14 =$	$5 \times 3 =$	$5 = 1 \times$

6.

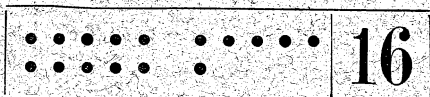
$2 \text{ vo } 4 =$	$2 \text{ v } 6 =$	$\frac{1}{5} \text{ z } 5 =$	$\frac{1}{2} \text{ zo } 4 + 11 =$
$4 \text{ v } 8 =$	$2 \text{ v } 10 =$	$\frac{1}{5} \text{ z } 10 =$	$\frac{1}{2} \text{ zo } 14 - 5 =$
$6 \text{ vo } 12 =$	$2 \text{ vo } 14 =$	$\frac{1}{7} \text{ zo } 14 =$	$\frac{1}{2} \text{ zo } 6 + 12 =$
$3 \text{ v } 9 =$	$3 \text{ v } 15 =$	$2 = \frac{1}{6} \text{ zo}$	$\frac{1}{2} \text{ zo } 12 - 4 =$
$1 \text{ v } 6 =$	$5 \text{ v } 15 =$	$3 = \frac{1}{5} \text{ z}$	$\frac{1}{3} \text{ zo } 12 + 10 =$
$3 \text{ vo } 12 =$	$4 \text{ v } 15 =$	$5 = \frac{1}{3} \text{ z}$	$\frac{1}{2} \text{ z } 10 - 3 =$

1) Istý sluha slúžil u jedného gazdu 6 rokov, u druhého 5 rokov a u tretieho 4 roky; koľko rokov slúžil spolu?

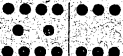

2) Z 15 kg dostane A 4 kg, B 3 kg, C 5 kg a D ostatok; koľko dostane D?

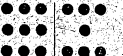

3) Istý robotník stal v pondelok do roboty a pracoval mimo 2 nediel pol tretia týždňa; koľko dní pracoval?

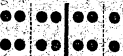

4) Jestli méter súkna stojí 3 zl., koľko metrov dostaneme za 15 (12, 9, 6) zl.? (Odpoveď: kolkokrát nachodí sa 3 v 15 (12, 9, 6), toľko dostaneme metrov.) Atď.




$$16 \times 1 = \quad | \quad 1 \text{ v } 16 =$$

	$10 + 6 =$	$16 - 6 =$	$16 = 10 +$	$1 \times 10 \times 6 =$
	$6 + 10 =$	$16 - 10 =$	$16 = 6 +$	$10 \text{ v } 16 =$

	$9 + 7 =$	$16 - 7 =$	$16 = 9 +$	$1 \times 9 + 7 =$
	$7 + 9 =$	$16 - 9 =$	$16 = 7 +$	$9 \text{ v } 16 =$

	$8 + 8 =$	$8 \text{ v } 16 =$	$4 \times 4 =$	$8 \times 2 =$
	$2 \times 8 =$	$16 = 8 +$	$4 \text{ v } 16 =$	$2 \text{ v } 16 =$
	$16 - 8 =$	$\frac{1}{2} \text{ zo } 16 =$	$\frac{1}{4} \text{ zo } 16 =$	$\frac{1}{8} \text{ zo } 16 =$

	$2 \times 7 + 2 =$	$7 \text{ v } 16 =$
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	$2 \times 6 + 4 =$	$6 \text{ v } 16 =$
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	$5 \times 3 + 1 =$	$3 \text{ v } 16 =$	$3 \times 5 + 1 =$	$5 \text{ v } 16 =$
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1.

Pričítajte 6 a odčítajte 5 počna od 1—16!

2.

Rozložte 16 na čiastky: a) 8 rov., — b) 4 r., — c) 5 r. a 1 ner., — d) 3 r. a 1 ner., — e) 2 r. a 1 ner. na 2 spôsoby.

3.

$2 + 6 =$	$6 + 9 =$	$13 + 3 =$	$8 + 8 =$	$15 + . = 16$
$6 + 4 =$	$5 + 6 =$	$4 + 12 =$	$4 + 9 =$	$7 + . = 14$
$6 + 6 =$	$6 + 8 =$	$13 + 2 =$	$9 + 7 =$	$2 + . = 16$
$6 + 3 =$	$10 + 6 =$	$5 + 11 =$	$8 + 7 =$	$12 + . = 16$
$7 + 6 =$	$3 + 6 =$	$14 + 2 =$	$7 + 9 =$	$5 + . = 13$

4.

$7 - 6 =$	$11 - 6 =$	$16 - 5 =$	$16 - 12 =$	$15 - 7 =$
$9 - 6 =$	$12 - 4 =$	$16 - 1 =$	$16 - 15 =$	$16 - 8 =$
$12 - 6 =$	$13 - 6 =$	$16 - 4 =$	$16 - 11 =$	$16 - 10 =$
$10 - 6 =$	$14 - 6 =$	$16 - 3 =$	$16 - 14 =$	$16 - 7 =$
$15 - 6 =$	$16 - 2 =$	$16 - 6 =$	$16 - 13 =$	$16 - 9 =$

5.

$2 + 8 - 9$	$15 - 14 + 13 =$	$3 \times 2 =$	$8 = 2 \times .$
$5 + 9 - 10$	$15 - 13 + 12 =$	$5 \times 2 =$	$12 = 2 \times .$
$4 + 10 - 11$	$14 - 12 + 11 =$	$7 \times 2 =$	$9 = 3 \times .$
$1 + 6 - 7$	$16 - 16 + 15 =$	$4 \times 3 =$	$15 = 3 \times .$
$3 + 7 - 8$	$16 - 15 + 14 =$	$4 \times 4 =$	$16 = 2 \times .$

6.

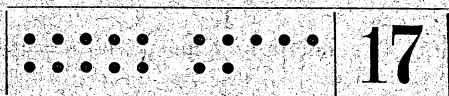
$1 \text{ vo } 4 =$	$5 \text{ v } 15 =$	$\frac{1}{8} \text{ zo } 16 =$	$\frac{1}{3} \text{ zo } 6 + 11 =$
$2 \text{ v } 8 =$	$6 \text{ v } 15 =$	$\frac{1}{4} \text{ zo } 4 =$	$\frac{1}{3} \text{ z } 9 + 12 =$
$2 \text{ v } 10 =$	$6 \text{ vo } 12 =$	$\frac{1}{4} \text{ z } 8 =$	$\frac{1}{5} \text{ z } 15 + 13 =$
$2 \text{ v } 16 =$	$7 \text{ vo } 14 =$	$3 = \frac{1}{4} \text{ zo}$	$\frac{1}{3} \text{ zo } 12 - 3 =$
$3 \text{ vo } 12 =$	$8 \text{ v } 16 =$	$4 = \frac{1}{4} \text{ zo}$	$\frac{1}{3} \text{ z } 15 - 2 =$
$4 \text{ v } 16 =$	$9 \text{ v } 16 =$	$8 = \frac{1}{2} \text{ zo}$	$\frac{1}{2} \text{ zo } 14 - 5 =$

1) V sade stojí 5 jabloní, 4 hrušky, 3 orechy, toľko čerešien a jedna šľivka; koľko je tam stromov dohromady?

2) Do studne vpustili rebrík 16 metrov dlhý; keď z rebríka vyčnievajú len 3 m, koľko m je tá studňa hlboká?

3) 8 žiakov si pokúpilo nové šľabikáre; koľko dali za ne spolu, keď platil každý za šľabikár 2 10krajciarniky?

4) 16 pollitrov koľko je to litrov? Atď.



$$17 \times 1 = \quad | \quad 1 \vee 17 =$$

$$\begin{array}{|c|c|} \hline \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} \\ \hline \end{array} \quad 10 + 7 = | 17 - 7 = | 17 = 10 + . | 1 \times 10 + 7 =$$

$$\begin{array}{|c|c|} \hline \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} \\ \hline \end{array} \quad 7 + 10 = | 17 - 10 = | 17 = 7 + . | 10 \vee 17 =$$

$$\begin{array}{|c|c|} \hline \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} \\ \hline \end{array} \quad 9 + 8 = | 17 - 8 = | 17 = 9 + . | 1 \times 9 + 8 =$$

$$\begin{array}{|c|c|} \hline \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} \\ \hline \end{array} \quad 8 + 9 = | 17 - 9 = | 17 = 8 + . | 9 \vee 17 =$$

$$\begin{array}{|c|c|c|} \hline \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \bullet \\ \hline \end{array} \quad 2 \times 8 + 1 = | 4 \times 4 + 1 = | 8 \times 2 + 1 =$$

$$\begin{array}{|c|c|c|} \hline \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \bullet \\ \hline \end{array} \quad 8 \vee 17 = | 4 \vee 17 = | 2 \vee 17 =$$

$$\begin{array}{|c|c|c|} \hline \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \bullet \\ \hline \end{array} \quad 2 \times 7 + 3 = \quad | \quad 7 \vee 17 =$$

$$\begin{array}{|c|c|c|} \hline \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \bullet \bullet \\ \hline \end{array} \quad 2 \times 6 + 5 = \quad | \quad 6 \vee 17 =$$

$$\begin{array}{|c|c|c|c|} \hline \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \bullet \\ \hline \end{array} \quad 3 \times 5 + 2 = \quad | \quad 5 \vee 17 =$$

$$\begin{array}{|c|c|c|c|c|} \hline \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \begin{array}{c} \bullet \bullet \bullet \bullet \bullet \\ \bullet \bullet \bullet \bullet \bullet \end{array} & \bullet \\ \hline \end{array} \quad 5 \times 3 + 2 = \quad | \quad 3 \vee 17 =$$

1.

Pričítajte 7 a odčítajte 6 počna od 1—17!

2.

Rozložte 17 na čiastky : a) 8 rov. a 1 ner., — b) 5 r. a 1 ner., — c) 4 r. a ner., — d) 3 r. a 1 ner., — e) 2 r. a 1 ner. na 3 spôsoby.

3.

$$\begin{array}{|c|c|c|c|c|} \hline 1 + 7 = & 7 + 4 = & 7 + 10 = & 6 + 11 = & 14 + . = 17 \\ 7 + 3 = & 8 + 7 = & 8 + 7 = & 13 + 2 = & 1 + . = 17 \\ 2 + 7 = & 7 + 6 = & 8 + 9 = & 4 + 13 = & 12 + . = 15 \\ 7 + 5 = & 7 + 7 = & 6 + 5 = & 12 + 5 = & 3 + . = 17 \\ 9 + 7 = & 9 + 8 = & 10 + 7 = & 4 + 12 = & 9 + . = 17 \\ \hline \end{array}$$

4.

$11 - 7 =$	$13 - 7 =$	$16 - 4 =$	$17 - 4 =$	$17 - 12 =$
$11 - 5 =$	$14 - 5 =$	$16 - 7 =$	$17 - 6 =$	$17 - 15 =$
$12 - 4 =$	$14 - 7 =$	$17 - 2 =$	$17 - 8 =$	$17 - 14 =$
$12 - 7 =$	$15 - 7 =$	$17 - 5 =$	$17 - 7 =$	$17 - 13 =$
$13 - 6 =$	$15 - 3 =$	$17 - 3 =$	$17 - 9 =$	$17 - 16 =$

5.

$1 + 7 - 8 =$	$17 - 17 + 16 =$	$2 \times 4 =$	$10 = 5 \times$
$3 + 8 - 9 =$	$17 - 16 + 15 =$	$2 \times 6 =$	$14 = 7 \times$
$2 + 9 - 10 =$	$16 - 15 + 14 =$	$3 \times 3 =$	$12 = 4 \times$
$5 + 10 - 11 =$	$16 - 14 + 13 =$	$3 \times 5 =$	$12 = 6 \times$
$4 + 11 - 12 =$	$15 - 13 + 12 =$	$4 \times 4 =$	$16 = 8 \times$

6.

7 vo 14 =	5 v 17 =	$\frac{1}{2}$ zo 2 =	$\frac{1}{2}$ z 8 + 9 =
3 v 15 =	3 vo 12 =	$\frac{1}{2}$ zo 6 =	$\frac{1}{2}$ zo 12 - 5 =
2 vo 12 =	6 v 6 =	$\frac{1}{2}$ z 10 =	$\frac{1}{5}$ z 15 - 3 =
2 v 8 =	4 v 16 =	7 = $\frac{1}{2}$ zo	$\frac{1}{5}$ z 10 + 15 =
2 v 5 =	2 v 10 =	8 = $\frac{1}{2}$ zo	$\frac{1}{8}$ zo 16 + 11 =
3 v 9 =	8 v 17 =	4 = $\frac{1}{4}$ zo	$\frac{1}{3}$ z 15 - 4 =

1) Istý dobre majúci sa sedliak má 8 volov, 5 kráv a 4 telence; koľko kusov rožného statku má dohromady?

2) Nekto z vás má 17 kr. platiť, splatí 9 kr.; koľko kr. ostane ešte dlžen?







3) 6 koňov viedli podkovať, piatim pribili po 3—3 podkovy, šiestemu len 2; koľko podkov potrebovali dohromady?







4) V istom dome zhorí za večer za 3 kr. petroleumu; na koľko večerov postačilo by tam petroleum v cene 9 (12, 15) kr.? Atď.



•••••	•••••	18
•••••	•••••	



$$18 \times 1 = \quad | \quad 1 \text{ v } 18 =$$

•••••	•••••	$10 + 8 =$	$18 - 8 =$	$18 = 10 +$	$1 \times 10 + 8 =$
•••••	•••••	$8 + 10 =$	$18 - 10 =$	$18 = 8 +$	$10 \text{ v } 18 =$

		$9 + 9 =$	$9 \vee 18 =$	$6 \times 3 =$	$3 \times 6 =$
		$2 \times 9 =$	$18 = 9 +$	$3 \vee 18 =$	$6 \vee 18 =$
		$18 - 9 =$	$1/2 \text{ z } 18 =$	$1/6 \text{ z } 18 =$	$1/3 \text{ z } 18 =$

		$2 \times 8 + 2 =$	$4 \times 4 + 2 =$	$9 \times 2 =$
		$8 \vee 18 =$	$4 \vee 18 =$	$2 \vee 18 =$
				$1/9 \text{ z } 18 =$

		$2 \times 7 + 4 =$	$7 \vee 18 =$
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		$3 \times 5 + 3 =$	$5 \vee 18 =$
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1.

Pričítajte 8 a odčítajte 7 počna od 1—18!

2.

Rozložte 18 na čiastky; a) 9 rov., — b) 6 rov., —
 c) 3 rov., — d) 4 r. a 1 ner., — e) 3 r. a 1 ner., —
 f) 2 r. a 1 ner. na 2 spôsoby.

3.

$4 + 8 =$	$6 + 8 =$	$3 + 15 =$	$4 + 14 =$	$13 + \quad = 18$
$8 + 1 =$	$8 + 10 =$	$17 + 1 =$	$10 + 8 =$	$1 + \quad = 18$
$3 + 8 =$	$9 + 8 =$	$2 + 15 =$	$3 + 13 =$	$12 + \quad = 18$
$8 + 5 =$	$8 + 8 =$	$11 + 7 =$	$16 + 2 =$	$7 + \quad = 18$
$7 + 8 =$	$5 + 11 =$	$2 + 13 =$	$2 + 12 =$	$9 + \quad = 18$
$8 + 2 =$	$4 + 12 =$	$12 + 4 =$	$15 + 3 =$	$14 + \quad = 18$

4.

$12 - 5 =$	$8 - 3 =$	$18 - 3 =$	$18 - 8 =$	$18 - 17 =$
$13 - 6 =$	$12 - 4 =$	$18 - 1 =$	$18 - 5 =$	$18 - 13 =$
$14 - 3 =$	$17 - 5 =$	$18 - 6 =$	$18 - 9 =$	$18 - 10 =$
$15 - 7 =$	$11 - 6 =$	$18 - 4 =$	$18 - 11 =$	$18 - 14 =$
$16 - 4 =$	$16 - 7 =$	$18 - 7 =$	$18 - 15 =$	$18 - 16 =$
$17 - 8 =$	$13 - 8 =$	$18 - 2 =$	$18 - 12 =$	$18 - 18 =$

5.

$5 + 11 - 12 =$	$17 - 15 + 14 =$	$2 \times 3 =$	$12 = 4 \times$
$4 + 12 - 13 =$	$16 - 14 + 13 =$	$2 \times 5 =$	$18 = 6 \times$
$1 + 8 - 9 =$	$18 - 18 + 17 =$	$2 \times 7 =$	$18 = 9 \times$
$3 + 9 - 10 =$	$18 - 17 + 16 =$	$2 \times 8 =$	$18 = 3 \times$
$2 + 10 - 11 =$	$17 - 16 + 15 =$	$2 \times 9 =$	$14 = 7 \times$

6.

2 v 18 =	2 v 6 =	$\frac{1}{2}$ z 18 =	$\frac{1}{3}$ zo 12 = 3 =
4 vo 12 =	2 v 10 =	$\frac{1}{3}$ zo 3 =	$\frac{1}{3}$ zo 6 + 16 =
2 v 18 =	3 vo 12 =	$\frac{1}{3}$ z 9 =	$\frac{1}{6}$ zo 12 + 7 =
3 v 10 =	7 v 15 =	5 = $\frac{1}{3}$ z	$\frac{1}{3}$ z 18 = 4 =
5 v 15 =	3 v 18 =	6 = $\frac{1}{3}$ z	$\frac{1}{8}$ zo 16 + 15 =
6 v 18 =	4 v 18 =	2 = $\frac{1}{9}$ z	$\frac{1}{2}$ zo 16 = 5 =

1) Hospodárovi urodilo sa na jednej roli 7, na druhej 8 a na tretej 3 kríže zbožia; koľko krížov dohromady?

2) Jedna geleta váži i s brinzou v nej obsaženou 18 kilogramov (*surová váha*), sama geleta osebe $3\frac{1}{2}$ kg (*vyvažka*); koľko čistej brinzde nachodí sa v otáznej gelete (*čistá váha*)?

3) Matka kúpila $\frac{1}{2}$ tucta nožov, $\frac{1}{2}$ tucta vidličiek a $\frac{1}{2}$ tucta lyžičiek; koľko je to kusov dohromady?

4) Traja chlapi dostali 18 orechov, aby sa s nimi jednako podelili; koľko orechov prišlo na každého? Atď.

•••••	•••••	19
•••••	•••••	

$$19 \times 1 = \quad | \quad 1 \text{ v } 19 =$$

•••••	•••••	10 + 9 =	19 - 9 =	19 = 10 +	1 × 10 + 9 =
•••••	•••••	9 + 10 =	19 - 10 =	19 = 9 +	10 v 19 =

•••••	•••••	•	2 × 9 + 1 =	9 v 19 =
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•••••	•••••	••	2 × 8 + 3 =	4 × 4 + 3 =
•••••	•••••	••	8 v 19 =	4 v 19 =

•••••	•••••	•••	2 × 7 + 5 =	7 v 19 =
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•••••	•••••	•••••	•	3 × 6 + 1 =	6 × 3 + 1 =	9 × 2 + 1 =
•••••	•••••	•••••	•	6 v 19 =	3 v 19 =	2 v 19 =

•••••	•••••	•••••	•••	3 × 5 + 4 =	5 v 19 =
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1.

Pričítajte 9 a odčítajte 8 počna od 1—19?

2.

Rozložte 19 na čiastky : a) 9 rov. a 1 ner., — b) 6 r. a 1 ner., — c) 4 r. a 1 ner., — d) 3 r. a 1 ner. na 2 spôs., — e) 2 r. a 1 ner. na 3 spôsoby.

3.

$5+9=$	$6+9=$	$2+17=$	$9+10=$	$16+ \cdot = 19$
$9+3=$	$9+9=$	$16+ 1=$	$12+ 6=$	$4+ \cdot = 19$
$7+9=$	$2+9=$	$5+14=$	$8+11=$	$17+ \cdot = 19$
$9+1=$	$10+9=$	$13+ 2=$	$12+ 7=$	$1+ \cdot = 19$
$4+9=$	$12+3=$	$6+13=$	$2+15=$	$7+ \cdot = 19$
$9+8=$	$15+4=$	$3+19=$	$18+ 1=$	$11+ \cdot = 19$

4.

$13-4=$	$9-4=$	$19-5=$	$19- 3=$	$19-11=$
$14-2=$	$11-5=$	$19-2=$	$19- 6=$	$19-18=$
$15-7=$	$17-6=$	$19-7=$	$19- 8=$	$19-12=$
$16-3=$	$12-7=$	$19-1=$	$19-10=$	$19-16=$
$17-5=$	$10-8=$	$19-4=$	$19-15=$	$19-14=$
$18-9=$	$16-9=$	$19-9=$	$19-13=$	$19-17=$

5.

$4+13-14=$	$19-19+18=$	$3 \times 3=$	$12=3 \times$
$2+11-12=$	$18-17+16=$	$3 \times 5=$	$18=3 \times$
$1+9-10=$	$17-15+14=$	$4 \times 4=$	$12=6 \times$
$5+12-13=$	$19-18+17=$	$5 \times 2=$	$16=8 \times$
$3+10-11=$	$18-16+15=$	$7 \times 2=$	$18=9 \times$

6.

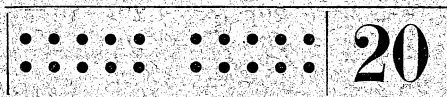
$2 \text{ vo } 4=$	$9 \text{ v } 18=$	$\frac{1}{2} \text{ zo } 4=$	$\frac{1}{8} \text{ zo } 16+13=$
$2 \text{ v } 16=$	$2 \text{ v } 19=$	$\frac{1}{7} \text{ zo } 14=$	$\frac{1}{6} \text{ z } 18+16=$
$4 \text{ vo } 12=$	$3 \text{ v } 19=$	$\frac{1}{3} \text{ z } 18=$	$\frac{1}{2} \text{ zo } 14-5=$
$3 \text{ v } 18=$	$4 \text{ v } 19=$	$3= \frac{1}{3} \text{ z}$	$\frac{1}{2} \text{ z } 10-4=$
$2 \text{ v } 18=$	$6 \text{ v } 19=$	$9= \frac{1}{2} \text{ z}$	$\frac{1}{4} \text{ zo } 12+15=$
$6 \text{ v } 18=$	$9 \text{ v } 19=$	$2= \frac{1}{9} \text{ z}$	$\frac{1}{3} \text{ z } 15-3=$

1) Ja mám jeden desiatnik, 2 4krajciarniky a 1 kr. ; koľko krajciarov mám spolu?

2) Hospodár predal na trhu zbožia za 19 zl. Z peňazí tých kúpil za 5 zl. pár čižiem, za 2 zl. širák a 6 zl. zaplatil na porciu ; koľko zl. doniesol ešte domov z utržených peňazí?

3) Žena doniesla na trh 9 párov kureniec a jedno holúbä; koľko utržila za všetko, keď pár kureniec po dvoch desiatnikoch a holúbä za jeden desiatnik predala?

4) Robotník má na deň 2 desiatniky; koľko dní musí pracovať, aby si zarobil 19 desiatnikov? Atď.



$$20 \times 1 = \quad | \quad 1 \text{ vo } 20 =$$

	$10 + 10$	$10 \text{ vo } 20 =$	$4 \times 5 =$
	2×10	$20 = 10 +$	$5 \text{ vo } 20 =$
	$20 - 10$	$1/2 \text{ zo } 20 =$	$1/4 \text{ zo } 20 =$

	$2 \times 9 + 2 =$	$6 \times 3 + 2 =$	$3 \times 6 + 2 =$
	$9 \text{ vo } 20 =$	$3 \text{ vo } 20 =$	$6 \text{ vo } 20 =$

	$2 \times 8 + 4 =$	$5 \times 4 =$	$10 \times 2 =$
	$8 \text{ vo } 20 =$	$4 \text{ vo } 20 =$	$2 \text{ vo } 20 =$
		$1/5 \text{ zo } 20 =$	$1/10 \text{ zo } 20 =$

	$2 \times 7 + 6 =$	$7 \text{ vo } 20 =$
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1.

Pričítajte 10 a odčítajte 9 počnúc od 1—20!

2.

Rozložte 20 na čiastky: a) 10 rov., — b) 5 rov.,
— c) 4 rov., — d) 6 r. a 1 ner., — e) 3 r. a 1 ner.,
— f) 2 r. a 1 ner. na 3 spôsoby.

3.

$2 + 10 =$	$9 + 10 =$	$5 + 11 =$	$11 + 9 =$	$8 + \quad = 20$
$10 + 5 =$	$10 + 10 =$	$18 + 2 =$	$6 + 7 =$	$9 + \quad = 20$
$7 + 10 =$	$3 + 7 =$	$2 + 9 =$	$9 + 8 =$	$17 + \quad = 20$
$10 + 1 =$	$16 + 4 =$	$19 + 1 =$	$5 + 15 =$	$2 + \quad = 20$
$3 + 10 =$	$4 + 8 =$	$3 + 17 =$	$12 + 8 =$	$4 + \quad = 20$
$10 + 6 =$	$13 + 7 =$	$7 + 8 =$	$7 + 12 =$	$15 + \quad = 20$
$8 + 10 =$	$8 + 6 =$	$14 + 6 =$	$9 + 9 =$	$6 + \quad = 20$
$10 + 4 =$	$4 + 5 =$	$10 + 9 =$	$1 + 19 =$	$7 + \quad = 20$

4.

$6 - 2 =$	$16 - 5 =$	$13 - 5 =$	$20 - 5 =$	$20 - 12 =$
$8 - 5 =$	$17 - 8 =$	$16 - 6 =$	$20 - 2 =$	$20 - 13 =$
$10 - 7 =$	$18 - 4 =$	$11 - 7 =$	$20 - 9 =$	$20 - 14 =$
$11 - 3 =$	$19 - 6 =$	$15 - 8 =$	$20 - 4 =$	$20 - 15 =$
$12 - 7 =$	$12 - 1 =$	$19 - 9 =$	$20 - 6 =$	$20 - 16 =$
$13 - 2 =$	$18 - 2 =$	$20 - 1 =$	$20 - 8 =$	$20 - 17 =$
$14 - 9 =$	$14 - 3 =$	$20 - 3 =$	$20 - 10 =$	$20 - 18 =$
$15 - 1 =$	$17 - 4 =$	$20 - 7 =$	$20 - 11 =$	$20 - 19 =$

5.

$4 + 8 + 7 =$	$13 - 8 + 6 =$	$1 + 10 - 11 =$	$18 - 16 + 15 =$
$12 + 3 + 5 =$	$8 + 9 - 12 =$	$2 + 12 - 13 =$	$19 - 17 + 16 =$
$19 - 7 - 8 =$	$18 - 13 + 8 =$	$3 + 11 - 12 =$	$19 - 18 + 17 =$
$20 - 6 - 9 =$	$9 + 7 - 4 =$	$4 + 14 - 15 =$	$20 - 19 + 18 =$
$7 + 10 - 8 =$	$20 - 9 + 8 =$	$5 + 13 - 14 =$	$20 - 20 + 19 =$

6.

$3 \times 4 =$	$2 \times 9 =$	$4 = 2 \times$	$18 = 9 \times$	$6 \times 3 - 7 =$
$6 \times 3 =$	$10 \times 2 =$	$10 = 5 \times$	$8 = 2 \times$	$8 \times 1 + 9 =$
$7 \times 2 =$	$3 \times 5 =$	$9 = 3 \times$	$20 = 10 \times$	$4 \times 3 - 5 =$
$2 \times 6 =$	$8 \times 2 =$	$16 = 4 \times$	$6 = 3 \times$	$2 \times 7 + 6 =$
$4 \times 5 =$	$3 \times 6 =$	$20 = 5 \times$	$16 = 2 \times$	$5 \times 3 - 8 =$

7.

$2 \text{ vo } 4 =$	$3 \text{ v } 15 =$	$4 \text{ vo } 20 =$	$6 \text{ v } 18 =$	$8 \text{ vo } 20 =$
$2 \text{ v } 10 =$	$3 \text{ v } 9 =$	$4 \text{ v } 16 =$	$6 \text{ vo } 12 =$	$9 \text{ v } 18 =$
$2 \text{ vo } 14 =$	$3 \text{ v } 18 =$	$5 \text{ v } 15 =$	$7 \text{ vo } 14 =$	$9 \text{ vo } 20 =$
$2 \text{ vo } 20 =$	$4 \text{ vo } 4 =$	$5 \text{ vo } 20 =$	$8 \text{ v } 16 =$	$10 \text{ vo } 20 =$

8.

$\frac{1}{2} \text{ zo } 6 =$	$\frac{1}{3} \text{ z } 18 =$	$7 = \frac{1}{2} \text{ zo}$	$\frac{1}{2} \text{ z } 18 = 7 =$
$\frac{1}{2} \text{ zo } 16 =$	$\frac{1}{4} \text{ zo } 12 =$	$10 = \frac{1}{2} \text{ zo}$	$\frac{1}{3} \text{ zo } 3 + 19 =$
$\frac{1}{2} \text{ zo } 20 =$	$\frac{1}{4} \text{ zo } 20 =$	$5 = \frac{1}{3} \text{ z}$	$\frac{1}{4} \text{ zo } 16 = 3 =$
$\frac{1}{3} \text{ z } 9 =$	$\frac{1}{5} \text{ zo } 20 =$	$5 = \frac{1}{4} \text{ zo}$	$\frac{1}{5} \text{ z } 10 + 16 =$
$\frac{1}{3} \text{ zo } 6 =$	$\frac{1}{6} \text{ z } 18 =$	$4 = \frac{1}{5} \text{ zo}$	$\frac{1}{7} \text{ zo } 14 + 18 =$

1) Otec doniesol svojim štyrom malým deťom jarmočné za 20 kr. a síce A-mu mäďové hodinky za 3 kr., B-mu konička s pišťelkou za 6 kr., C-ke paničku za 5 kr., a D-mu kalamár za ostatnie; koľko kr. stál kalamár D-ho?

2) Keď je liter mlieka za 5 kr., za koľko kr. budú 4 (2, 3, $\frac{1}{2}$, $1\frac{1}{2}$) l?

3) 20 kr. = jeden dvaciatnik a naopak. Chlapec si chce premeniť dvaciatnik; koľko dostane zaň krajciarov? koľko desiatnikov? koľko 4krajciarnikov? Prečo toľko?

Oddiel tretí.

Kruh čísel od 1 až po 100.

== Za opakovacie cvičenia možno použiť cvičenia s dvaciatkou. ==

I. Cvičenia s číslami po 30.

● ● ● ● ●	● ● ● ● ●	10	jednoriek	= 1 desiatka
● ● ● ● ●	● ● ● ● ●	20		= 2 desiatky
● ● ● ● ●	● ● ● ● ●	30		= 3 desiatky.
21 22 23 24 25	26 27 28 29 30			

20 + I	= 21	t. j.	2 desiatky a 1 jednorika
20 + II	= 22	„	2 desiatky a 2 jednoriky
20 + III	= 23	„	2 desiatky a 3 jednoriky
20 + IIII	= 24	„	2 desiatky a 4 jednoriky
20 + IIIII	= 25	„	2 desiatky a 5 jednoriek
20 + IIIIII	= 26	„	2 desiatky a 6 jednoriek
20 + IIIIII	= 27	„	2 desiatky a 7 jednoriek
20 + IIIIIII	= 28	„	2 desiatky a 8 jednoriek
20 + IIIIIIII	= 29	„	2 desiatky a 9 jednoriek
20 + IIIIIIII	= 30	„	3 desiatky a 0 jednoriek.

1) Čítajte od 1-ho až po 30 . . . a nazpät!

2) Nasledujúce čísla vyslovte a potom rozložte na desiatky a jednoriky!

10, 20, 23, 14, 25, 11, 26, 21, 17, 12, 28,
13, 18, 24, 29, 15, 22, 30, 16, 27, 19.

Takto: 10 = 1 desiatka

20 = 2 d.

23 = 2 d. a 3 jednoriky atď.

3) Napíšte párne čísla od 2 až po 30, potom nepárne od 1 až po 29!

a) Sčítanie.

$10 + 1 =$	$4 + 3 =$	$8 + 3 =$	$10 + 10 =$	$13 + 12 =$
$10 + 3 =$	$14 + 3 =$	$18 + 3 =$	$11 + 10 =$	$13 + 10 = 23$
$10 + 5 =$	$24 + 3 =$	$9 + 4 =$	$5 + 10 =$	$23 + 2 = 25$
$2 + 10 =$	$2 + 6 =$	$19 + 4 =$	$15 + 10 =$	$14 + 13 =$
$6 + 10 =$	$12 + 6 =$	$7 + 5 =$	$13 + 10 =$	$16 + 11 =$
$7 + 10 =$	$22 + 6 =$	$7 + 15 =$	$18 + 10 =$	$12 + 14 =$
$20 + 3 =$	$1 + 7 =$	$5 + 16 =$	$14 + 10 =$	$18 + 12 =$
$20 + 8 =$	$21 + 7 =$	$9 + 18 =$	$10 + 12 =$	$11 + 17 =$
$20 + 7 =$	$5 + 2 =$	$17 + 8 =$	$10 + 19 =$	$12 + 16 =$
$5 + 20 =$	$25 + 2 =$	$14 + 7 =$	$10 + 16 =$	$17 + 13 =$
$9 + 20 =$	$23 + 4 =$	$13 + 9 =$	$10 + 17 =$	$14 + 15 =$
$4 + 20 =$	$26 + 3 =$	$3 + 27 =$	$10 + 20 =$	

b) Odčítanie.

$5 - 3 =$	$11 - 2 =$	$20 - 10 =$	$25 - 12 =$	$24 - 18 =$
$15 - 3 =$	$21 - 2 =$	$30 - 10 =$	$25 - 10 = 15$	$24 - 10 = 14$
$25 - 3 =$	$12 - 4 =$	$21 - 10 =$	$15 - 2 = 13$	$14 - 8 = 6$
$8 - 5 =$	$22 - 4 =$	$23 - 10 =$	$28 - 13 =$	$22 - 13 =$
$18 - 5 =$	$16 - 8 =$	$27 - 10 =$	$26 - 14 =$	$27 - 19 =$
$28 - 5 =$	$26 - 8 =$	$22 - 10 =$	$29 - 17 =$	$23 - 14 =$
$6 - 2 =$	$23 - 5 =$	$25 - 10 =$	$22 - 11 =$	$25 - 16 =$
$26 - 2 =$	$25 - 9 =$	$28 - 20 =$	$27 - 16 =$	$21 - 17 =$
$27 - 4 =$	$21 - 7 =$	$24 - 20 =$	$24 - 12 =$	$28 - 19 =$
$29 - 9 =$	$24 - 6 =$	$29 - 20 =$	$28 = 18 =$	$26 - 16 =$
$24 - 1 =$	$23 - 9 =$	$30 - 20 =$	$29 - 13 =$	$30 - 12 =$
$28 - 6 =$	$22 - 3 =$	$26 - 20 =$		

c) Dodávanie.

$5 + . = 12 =$	$12 + . = 17 =$	$16 + . = 26 =$	$13 + . = 24 =$
$8 + . = 17 =$	$14 + . = 20 =$	$11 + . = 21 =$	$15 + . = 28 =$
$7 + . = 18 =$	$23 + . = 27 =$	$15 + . = 25 =$	$18 + . = 30 =$
$9 + . = 20 =$	$21 + . = 30 =$	$20 + . = 30 =$	$12 + . = 30 =$

d) Násobenie.

$1 \times \bullet\bullet = 2$	$2 \times 1 =$	$1 \times \bullet\bullet\bullet = 3$	$3 \times 1 =$
$2 \times \bullet\bullet = 4$	$2 \times 2 =$	$2 \times \bullet\bullet\bullet = 6$	$3 \times 2 =$
$3 \times \bullet\bullet = 6$	$2 \times 3 =$	$3 \times \bullet\bullet\bullet = 9$	$3 \times 3 =$
$4 \times \bullet\bullet = 8$	$2 \times 4 =$	$4 \times \bullet\bullet\bullet = 12$	$3 \times 4 =$
$5 \times \bullet\bullet = 10$	$2 \times 5 =$	$5 \times \bullet\bullet\bullet = 15$	$3 \times 5 =$
$6 \times \bullet\bullet = 12$	$2 \times 6 =$	$6 \times \bullet\bullet\bullet = 18$	$3 \times 6 =$
$7 \times \bullet\bullet = 14$	$2 \times 7 =$	$7 \times \bullet\bullet\bullet = 21$	$3 \times 7 =$
$8 \times \bullet\bullet = 16$	$2 \times 8 =$	$8 \times \bullet\bullet\bullet = 24$	$3 \times 8 =$
$9 \times \bullet\bullet = 18$	$2 \times 9 =$	$9 \times \bullet\bullet\bullet = 27$	$3 \times 9 =$
$10 \times \bullet\bullet = 20$	$2 \times 10 =$	$10 \times \bullet\bullet\bullet = 30$	$3 \times 10 =$

$2 \times 3 =$	$4 \times 2 + 7 =$	$6 \times 3 - 8 =$	$2 \times 5 + 20 =$
$2 \times 6 =$	$5 \times 3 + 6 =$	$3 \times 4 - 7 =$	$3 \times 10 - 10 =$
$8 \times 2 =$	$9 \times 1 + 10 =$	$3 \times 6 - 10 =$	$3 \times 5 + 13 =$
$7 \times 1 =$	$3 \times 8 + 5 =$	$7 \times 3 - 5 =$	$3 \times 9 - 15 =$
$9 \times 3 =$	$2 \times 7 + 13 =$	$8 \times 3 - 6 =$	$3 \times 7 + 8 =$
$3 \times 3 =$	$4 \times 3 + 14 =$	$2 \times 8 - 9 =$	$10 \times 3 - 17 =$

e) Meranie.

$6 = \times 2;$	$2 \vee 6 = 3$	$12 = \times 3;$	$3 \vee 12 =$
$8 = \times 2;$	$2 \vee 8 =$	$9 = \times 3;$	$3 \vee 9 =$
$4 = \times 2;$	$2 \vee 4 =$	$6 = \times 3;$	$3 \vee 6 =$
$12 = \times 2;$	$2 \vee 12 =$	$15 = \times 3;$	$3 \vee 15 =$
$2 = \times 2;$	$2 \vee 2 =$	$24 = \times 3;$	$3 \vee 24 =$
$10 = \times 2;$	$2 \vee 10 =$	$21 = \times 3;$	$3 \vee 21 =$
$14 = \times 2;$	$2 \vee 14 =$	$27 = \times 3;$	$3 \vee 27 =$
$18 = \times 2;$	$2 \vee 18 =$	$3 = \times 3;$	$3 \vee 3 =$
$16 = \times 2;$	$2 \vee 16 =$	$30 = \times 3;$	$3 \vee 30 =$
$20 = \times 2;$	$2 \vee 20 =$	$18 = \times 3;$	$3 \vee 18 =$

$2 \vee 7 =$	$2 \vee 5 =$	$3 \vee 14 =$	$2 \vee 17 =$
$\frac{7=3 \times 2+1}{2 \vee 7=3(1)}$	$\frac{2 \vee 9 =}{2 \vee 15 =}$	$\frac{14=4 \times 3+2}{3 \vee 14=4(2)}$	$\frac{3 \vee 11 =}{3 \vee 2=0(2)}$
	$2 \vee 11 =$		$3 \vee 1 =$

Koľkokrát obsažené sú

2 v 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20?

3 v 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30?

Takto: $2 \vee 10 = 5$ $3 \vee 20 = 6(2)$
 $2 \vee 11 = 5(1)$ atď. $3 \vee 21 = 7$ atď.

f) Delenie.

$6 = 2 \times 3;$	$\frac{1}{2} \text{ zo } 6 =$	$3 = 3 \times 1;$	$\frac{1}{3} \text{ zo } 3 = 1$
$14 = 2 \times \dots;$	$\frac{1}{2} \text{ zo } 14 =$	$9 = 3 \times \dots;$	$\frac{1}{3} \text{ z } 9 = \dots$
$2 = 2 \times \dots;$	$\frac{1}{2} \text{ zo } 2 =$	$15 = 3 \times \dots;$	$\frac{1}{3} \text{ z } 15 = \dots$
$8 = 2 \times \dots;$	$\frac{1}{2} \text{ z } 8 =$	$6 = 3 \times \dots;$	$\frac{1}{3} \text{ zo } 6 = \dots$
$16 = 2 \times \dots;$	$\frac{1}{2} \text{ zo } 16 =$	$21 = 3 \times \dots;$	$\frac{1}{3} \text{ zo } 21 = \dots$
$10 = 2 \times \dots;$	$5 = \frac{1}{2} \text{ z}$	$27 = 3 \times \dots;$	$9 = \frac{1}{3} \text{ zo}$
$20 = 2 \times \dots;$	$10 = \frac{1}{2} \text{ z}$	$12 = 3 \times \dots;$	$4 = \frac{1}{3} \text{ zo}$
$4 = 2 \times \dots;$	$2 = \frac{1}{2} \text{ zo}$	$18 = 3 \times \dots;$	$6 = \frac{1}{3} \text{ z}$
$12 = 2 \times \dots;$	$6 = \frac{1}{2} \text{ zo}$	$24 = 3 \times \dots;$	$8 = \frac{1}{3} \text{ zo}$
$18 = 2 \times \dots;$	$9 = \frac{1}{2} \text{ z}$	$30 = 3 \times \dots;$	$10 = \frac{1}{3} \text{ zo}$

$$\frac{1}{2} \text{ zo } 13 =$$

$$13 = 2 \times 6 + 1$$

$$\frac{1}{2} \text{ zo } 12 = 6$$

$$\frac{1}{2} \text{ z } 1 = \frac{1}{2}$$

$$\frac{1}{2} \text{ zo } 13 = 6\frac{1}{2}$$

$$\frac{1}{3} \text{ zo } 7 =$$

$$7 = 3 \times 2 + 1$$

$$\frac{1}{3} \text{ zo } 6 = 2$$

$$\frac{1}{3} \text{ z } 1 = \frac{1}{3}$$

$$\frac{1}{3} \text{ zo } 7 = 2\frac{1}{3}$$

$$\frac{1}{3} \text{ zo } 26 =$$

$$26 = 3 \times 8 + 2$$

$$\frac{1}{3} \text{ zo } 24 = 8$$

$$\frac{1}{3} \text{ zo } 2 = \frac{2}{3}$$

$$\frac{1}{3} \text{ zo } 26 = 8\frac{2}{3}$$

Hľadajte

$$\frac{1}{2} \text{ zo } 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10;$$

$$\frac{1}{3} \text{ zo } 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20.$$

$$\text{Takto: } \frac{1}{2} \text{ zo } 20 = 10 \quad \frac{1}{3} \text{ zo } 30 = 10$$

$$\frac{1}{2} \text{ z } 19 = 9\frac{1}{2} \text{ atď.} \quad \frac{1}{3} \text{ z } 29 = 9\frac{2}{3} \text{ atď.}$$

1) Započnúc od 30 odčítajte striedavo a opätovne číslo 3 a pričítajte číslo 2!

$$\text{Takto: } 30 - 3 = 27$$

$$27 + 2 = 29$$

$$29 - 3 = 26$$

$$26 + 2 = \text{ atď. až po } 0.$$

2) Taktiež odčítajte číslo 12 a pričítajte číslo 11!

$$\text{Takto: } 30 - 12 = 18$$

$$18 + 11 = 29$$

$$29 - 12 = 17$$

$$17 + 11 = \text{ atď. až po } 0.$$

3) Násoďte čísla 4, 6, 9, 2, 5, 1, 7, 3, 8, 10 najprv číslom 2 a potom číslom 3!

$$\text{Takto: } 2 \times 4 = 8$$

$$2 \times 6 = 12 \text{ atď.}$$

$$3 \times 4 = 12$$

$$3 \times 6 = 18 \text{ atď.}$$

4) Koľkokrát obsažené sú

2, 3 vo 4, 8, 16, 1, 5, 7, 13, 3, 15, 11

2, 6, 17, 20, 9, 14, 19, 10, 18, 12?

3 vo 24, 28, 20, 29, 25, 21, 26, 30, 22, 27, 23?

$$\text{Takto: } 2 \text{ vo } 4 = 2$$

$$2 \text{ v } 8 = 4$$

atď.

$$3 \text{ vo } 4 = 1 \text{ (1)}$$

$$3 \text{ v } 8 = 2 \text{ (2)}$$

atď.

$$3 \text{ vo } 24 = 8$$

$$3 \text{ vo } 28 = 9 \text{ (1)}$$

atď.

5) Koľko je

$\frac{1}{2}, \frac{1}{3}$ zo 6, 19, 4, 1, 5, 10, 13, 20, 2, 14,

11, 16, 17, 3, 7, 12, 15, 18, 8, 9?

$\frac{1}{3}$ zo 21, 23, 28, 30, 25, 24, 20, 27, 26, 22, 29?

$$\text{Takto: } \frac{1}{2} \text{ zo } 6 = 3$$

$$\frac{1}{2} \text{ z } 19 = 9\frac{1}{2}$$

atď.

$$\frac{1}{3} \text{ vo } 6 = 2$$

$$\frac{1}{3} \text{ z } 19 = 6\frac{1}{3}$$

atď.

$$\frac{1}{3} \text{ zo } 21 = 7$$

$$\frac{1}{3} \text{ zo } 23 = 7\frac{2}{3}$$

atď.

6) Už vieme: 1 dvaciatnik = 2 desiatniky; koľko desiatnikov sú 2, 3, 4 9, 10 dvaciatnikov?

$$2 \text{ dvaciatniky} = 2 \times 2 \text{ desiatniky} = 4 \text{ desiatniky};$$

$$3 \text{ " } = 3 \times 2 \text{ " } = 6 \text{ " } \text{ atď.}$$

7) 1 zlatý = 10 desiatnikov; koľko desiatnikov obsahujú 2, (3, $\frac{1}{2}$, $1\frac{1}{2}$, $2\frac{1}{2}$) zlaté?

$$8) 1 \text{ méter} = 10 \text{ dm}; \text{ koľko dm je } \frac{1}{2} (2, 2\frac{1}{2}) \text{ m?}$$

$$9) 1 \text{ liter} = 10 \text{ dl}; \text{ koľko dl je } \frac{1}{2} (1\frac{1}{2}, 2) \text{ l?}$$

$$10) 1 \text{ tucet} = 12 \text{ kusov}; \text{ koľko kusov je } \frac{1}{2} (\frac{1}{3}, \frac{2}{3}) \text{ tuctu?}$$

$$11) 1 \text{ rok} = 12 \text{ mesiacov}; \text{ koľko mesiacov je } \frac{1}{2} (1\frac{1}{2}, 2, \frac{1}{3}, \frac{2}{3}, 2\frac{1}{3}) \text{ roka?}$$

$$12) 1 \text{ týdeň} = 7 \text{ dni}; \text{ koľko dní sú 3 týždne a 3 dni?}$$

13) Látka na oblek stála 18 zl., podšívka a gombičky 4 zl., ušitie ale 7 zl., koľko stál ten oblek?

14) Jedno vajco je za 2 kr., koľko vajec dostaneme za 8 (14, 20, 24, 30, 12, 18, 6, 28) kr.?

15) Koľko dní ubehne od 7. do 30. apríla?

$$16) 1 \text{ mesiac} = 30 \text{ dní}; \text{ koľko dní je } \frac{1}{2} (\frac{1}{3}, \frac{2}{3}) \text{ mesiaca?}$$

17) Koľko hárkov papieru dostaneš za 15 kr., keď za kr. dávajú 2 hárky?

18) Keď je liter čerešien po 3 kr., čo budú stáť 4 (5, 7, $1\frac{1}{2}$) l?

$$19) 1 \text{ deň} = 24 \text{ hodín}; \text{ koľko hodín je } \frac{1}{2} (\frac{1}{4}, \frac{1}{3}) \text{ dňa?}$$

$$20) 1 \text{ méter stojí 27 kr.}, \text{ čo príde za } \frac{1}{3} (\frac{2}{3}) \text{ m?}$$

21) Z 30 metrov dlhého kusu plátna odstrihol kupec raz 6, druhýraz 3 a tretíraz 13 m; koľko metrov obsahuje zbytok?

2. Cvičenia sčísľami po 50.

● ● ● ● ● ● ● ● ● ●	10	= 1 desiatka
● ● ● ● ● ● ● ● ● ●	20	= 2 desiatky
● ● ● ● ● ● ● ● ● ●	30	= 3 desiatky
● ● ● ● ● ● ● ● ● ●		= 4 desiatky
31 32 33 34 35 36 37 38 39 40		
● ● ● ● ● ● ● ● ● ●		= 5 desiatok
41 42 43 44 45 46 47 48 49 50		

1) Čítajte od 1-ho až po 50 a nazpät!

2) Nasledujúce čísla vyslovte a potom rozložte na desiatky a jednotky!

a) 20, 30, 24, 33, 46, 21, 40, 32, 27, 35, 49;

b) 34, 28, 50, 22, 48, 23, 47, 25, 45, 29, 44;

c) 31, 43, 36, 42, 37, 41, 38, 39, 26.

a) Sčítanie.

$30 + 1 =$	$6 + 2 =$	$5 + 8 =$	$10 + 3 =$	$25 + 17 =$
$30 + 4 =$	$16 + 2 =$	$15 + 8 =$	$10 + 13 =$	$25 + 10 =$
$30 + 3 =$	$26 + 2 =$	$25 + 8 =$	$10 + 23 =$	$35 + 7 =$
$6 + 30 =$	$36 + 2 =$	$35 + 8 =$	$10 + 33 =$	$22 + 15 =$
$9 + 30 =$	$46 + 2 =$	$28 + 4 =$	$20 + 5 =$	$27 + 12 =$
$5 + 30 =$	$32 + 7 =$	$27 + 9 =$	$20 + 15 =$	$23 + 25 =$
$40 + 2 =$	$43 + 5 =$	$34 + 6 =$	$20 + 25 =$	$16 + 14 =$
$40 + 7 =$	$41 + 8 =$	$2 + 29 =$	$10 + 30 =$	$33 + 17 =$
$40 + 4 =$	$3 + 34 =$	$5 + 27 =$	$20 + 30 =$	$15 + 26 =$
$5 + 40 =$	$8 + 31 =$	$7 + 38 =$	$15 + 30 =$	$13 + 18 =$
$8 + 40 =$	$6 + 42 =$	$3 + 39 =$	$27 + 20 =$	$24 + 15 =$
$3 + 40 =$	$4 + 44 =$	$9 + 36 =$	$19 + 30 =$	

b) Odčítanie.

$6 - 4 =$	$12 - 6 =$	$40 - 10 =$	$36 - 18 =$	$32 - 14 =$
$16 - 4 =$	$22 - 6 =$	$50 - 30 =$	$36 - 10 = 26$	$35 - 18 =$
$26 - 4 =$	$32 - 6 =$	$36 - 10 =$	$26 - 8 = 18$	$34 - 17 =$
$36 - 4 =$	$42 - 6 =$	$36 - 20 =$	$38 - 17 =$	$36 - 24 =$
$46 - 4 =$	$31 - 4 =$	$39 - 30 =$	$33 - 12 =$	$40 - 27 =$
$35 - 3 =$	$41 - 4 =$	$41 - 10 =$	$39 - 16 =$	$45 - 19 =$
$39 - 6 =$	$34 - 5 =$	$48 - 20 =$	$49 - 15 =$	$43 - 16 =$
$47 - 2 =$	$36 - 8 =$	$44 - 30 =$	$45 - 11 =$	$41 - 26 =$
$43 - 1 =$	$33 - 6 =$	$49 - 10 =$	$48 - 25 =$	$46 - 29 =$
$48 - 3 =$	$45 - 7 =$	$42 - 40 =$	$44 - 23 =$	$44 - 35 =$
$49 - 5 =$	$47 - 9 =$	$50 - 50 =$	$47 - 34 =$	$42 - 38 =$
$46 - 2 =$	$50 - 3 =$	$45 - 30 =$		$50 - 33 =$

c) Dodávanie.

$6 + \cdot = 11$	$20 + \cdot = 40$	$24 + \cdot = 35$	$27 + \cdot = 42$
$12 + \cdot = 19$	$20 + \cdot = 50$	$22 + \cdot = 36$	$28 + \cdot = 46$
$17 + \cdot = 25$	$27 + \cdot = 37$	$13 + \cdot = 38$	$26 + \cdot = 43$
$19 + \cdot = 27$	$36 + \cdot = 47$	$15 + \cdot = 49$	$39 + \cdot = 50$
$15 + \cdot = 21$	$25 + \cdot = 36$	$11 + \cdot = 34$	$16 + \cdot = 32$
$18 + \cdot = 26$	$37 + \cdot = 49$	$4 + \cdot = 47$	$14 + \cdot = 41$

d) Násobenie.

$1 \times \bullet \bullet \bullet \bullet = 4$	$4 \times 1 =$	$1 \times \bullet \bullet \bullet \bullet \bullet = 5$	$5 \times 1 =$
$2 \times \bullet \bullet \bullet \bullet = 8$	$4 \times 2 =$	$2 \times \bullet \bullet \bullet \bullet \bullet = 10$	$5 \times 2 =$
$3 \times \bullet \bullet \bullet \bullet = 12$	$4 \times 3 =$	$3 \times \bullet \bullet \bullet \bullet \bullet = 15$	$5 \times 3 =$
atď.		atď.	
až po $10 \times$	$4 \times 10 =$	až po $10 \times$	$5 \times 10 =$

$4 \times 3 =$	$4 \times 2 + 9 =$	$5 \times 4 - 7 =$	$4 \times 5 + 20 =$
$4 \times 6 =$	$4 \times 4 + 7 =$	$5 \times 6 - 10 =$	$5 \times 10 - 30 =$
$8 \times 4 =$	$6 \times 5 + 6 =$	$7 \times 5 - 5 =$	$1 \times 5 + 21 =$
$7 \times 3 =$	$4 \times 1 + 16 =$	$2 \times 5 - 8 =$	$5 \times 5 + 13 =$
$9 \times 5 =$	$5 \times 8 + 5 =$	$8 \times 5 - 6 =$	$5 \times 9 - 15 =$
$4 \times 9 =$	$4 \times 7 + 11 =$	$4 \times 8 - 9 =$	$5 \times 7 - 16 =$
$4 \times 10 =$	$3 \times 8 + 23 =$	$7 \times 4 - 20 =$	$6 \times 4 + 19 =$
$10 \times 5 =$	$9 \times 4 + 14 =$	$10 \times 4 - 13 =$	$5 \times 3 + 28 =$

e) Meranie.

$4 = \cdot \times 4;$	$4 \text{ vo } 4 =$	$20 = \cdot \times 5;$	$5 \text{ vo } 20 =$
$12 = \cdot \times 4;$	$4 \text{ vo } 12 =$	$10 = \cdot \times 5;$	$5 \text{ v } 10 =$
$24 = \cdot \times 4;$	$4 \text{ vo } 24 =$	$35 = \cdot \times 5;$	$5 \text{ v } 35 =$
$8 = \cdot \times 4;$	$4 \text{ v } 8 =$	$5 = \cdot \times 5;$	$5 \text{ v } 5 =$
$16 = \cdot \times 4;$	$4 \text{ v } 16 =$	$15 = \cdot \times 5;$	$5 \text{ v } 15 =$
$32 = \cdot \times 4;$	$4 \text{ vo } 32 =$	$40 = \cdot \times 5;$	$5 \text{ vo } 40 =$
$20 = \cdot \times 4;$	$4 \text{ vo } 20 =$	$25 = \cdot \times 5;$	$5 \text{ vo } 25 =$
$40 = \cdot \times 4;$	$4 \text{ vo } 40 =$	$45 = \cdot \times 5;$	$5 \text{ v } 45 =$
$36 = \cdot \times 4;$	$4 \text{ vo } 36 =$	$30 = \cdot \times 5;$	$5 \text{ vo } 30 =$
$28 = \cdot \times 4;$	$4 \text{ vo } 28 =$	$50 = \cdot \times 5;$	$5 \text{ v } 50 =$

$\frac{5 \text{ v } 36 =}{36 = 7 \times 5 + 1}$	$\frac{5 \text{ v } 38 =}{38 = 7 \times 5 + 3}$	$\frac{5 \text{ v } 39 =}{39 = 7 \times 5 + 4}$
$5 \text{ v } 36 = 7 (1)$	$5 \text{ v } 38 = 7 (3)$	$5 \text{ v } 39 = 7 (4)$

Kolkokrát obsažené sú

4 vo 32, 33, 30, 38, 34, 31, 37, 39, 35, 40 36?

5 v 40, 43, 44, 48, 46, 45, 42, 49, 50, 41, 47?

f) Delenie.

16 = 4 × ... ; $\frac{1}{4}$ zo 16 =	5 = 5 × ... ; $\frac{1}{5}$ z 5 =
12 = 4 × ... ; $\frac{1}{4}$ zo 12 =	20 = 5 × ... ; $\frac{1}{5}$ zo 20 =
36 = 4 × ... ; $\frac{1}{4}$ zo 36 =	15 = 5 × ... ; $\frac{1}{5}$ z 15 =
24 = 4 × ... ; $\frac{1}{4}$ zo 24 =	25 = 5 × ... ; $\frac{1}{5}$ zo 25 =
8 = 4 × ... ; $\frac{1}{4}$ z 8 =	10 = 5 × ... ; $\frac{1}{5}$ z 10 =
40 = 4 × ... ; 10 = $\frac{1}{4}$ zo	35 = 5 × ... ; 7 = $\frac{1}{5}$ zo
20 = 4 × ... ; 5 = $\frac{1}{4}$ zo	45 = 5 × ... ; 9 = $\frac{1}{5}$ zo
32 = 4 × ... ; 8 = $\frac{1}{4}$ zo	30 = 5 × ... ; 6 = $\frac{1}{5}$ zo
4 = 4 × ... ; 1 = $\frac{1}{4}$ zo	40 = 5 × ... ; 8 = $\frac{1}{5}$ zo
28 = 4 × ... ; 7 = $\frac{1}{4}$ zo	50 = 5 × ... ; 10 = $\frac{1}{5}$ z

$$\begin{array}{l} 34 = 4 \times 8 + 2 \\ \frac{1}{4} \text{ zo } 34 = 8\frac{2}{4} \end{array} \quad \begin{array}{l} 38 = 5 \times 7 + 3 \\ \frac{1}{5} \text{ zo } 38 = 7\frac{3}{5} \end{array} \quad \begin{array}{l} 49 = 5 \times 9 + 4 \\ \frac{1}{5} \text{ zo } 49 = 9\frac{4}{5} \end{array}$$

Hľadajte

- $\frac{1}{4}$ zo 32, 37, 30, 34, 39, 31, 35, 40, 33, 36, 38 ;
 $\frac{1}{5}$ zo 40, 46, 42, 47, 50, 43, 48, 45, 41, 49, 44.

1) Započnúc od 50 odčítajte striedavo a opätovne číslo 5 a pričítajte číslo 4!

2) Taktiež odčítajte číslo 14 a pričítajte číslo 13!

3) Násobte čísla 5, 8, 3, 7, 2, 1, 6, 4, 9, 10 najprv číslom 4 a potom číslom 5!

4) Koľkokrát obsažené sú

2, 3, 4, 5 vo 12, 15, 10, 18, 11, 16, 13, 19, 17, 14, 20?

3, 4, 5 vo 24, 21, 25, 28, 22, 26, 30, 23, 27, 29?

4, 5 vo 31, 34, 37, 32, 35, 38, 33, 39, 36, 40?

5 vo 42, 50, 47, 41, 44, 49, 46, 43, 48, 45?

5) Z ktorého čísla sú štyri (5, 2, 3) $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{3}$?

Takto: 4 = $\frac{1}{2}$ z 8

4 = $\frac{1}{4}$ zo 16 atď.

6) Koľko je

$\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$ z 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20?

$\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$ čísel od 20 až po 30?

$\frac{1}{4}$, $\frac{1}{5}$ " " 30 " " 40?

$\frac{1}{5}$ " " 40 " " 50?

7) Istá gazdina má 24 kureniec, 9 husí a 12 kačíc, koľko kúskov hydu má spolu?

8) Koľko desiatnikov je $\frac{1}{2}$ ($\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$) zl.?

9) 36 jablk sa podelilo medzi viac detí; keď každé dieťa dostalo 4 jablká, koľko bolo tých detí?

- 10) Koľko dvaciatnikov su 2, 3, 4 10 zl. ?
 11) Matej je o 5 rokov starší jako Jurko; obydva spolu počitujú 24 roky; koľko rokov má M. ? a koľko J. ?
 12) Koľko zlatých je 10 (30, 15, 40, 35) dvaciatnikov ?
 13) Koľko hodín je $\frac{1}{2}$ ($\frac{1}{4}$, $\frac{3}{4}$, $\frac{1}{3}$, $1\frac{1}{2}$, $1\frac{2}{3}$) dňa ?
 14) Nekto má 50 kr. a vydá 10 (30, 40, 45, 35, 15, 48, 31, 6, 24, 37, 28, 13) kr.; koľko kr. mu zbude ?
 15) Koľko krajciarov je 9 4krajciarnikov ?
 16) Koľko kušov je $\frac{1}{4}$ ($\frac{3}{4}$, $\frac{1}{3}$, $1\frac{1}{2}$, $2\frac{2}{3}$) tucta ?
 17) Za 1 kr. 5 orechov; koľko za 4 (7, 9, 10) kr. ?
 18) Koľko decilitrov je $\frac{1}{5}$ ($\frac{3}{5}$, $\frac{4}{5}$) litra ?
 19) 5 knižoček stojí 30 kr.; po čom jedna? (1 knižočka je 5-ta čiastka 5 knižoček; 1 knižočka stojí teda len 5-tu čiastku z 30 kr., t. j. 6 kr.)
 20) 4 metre stoja 36 kr.; po čom jeden? a čo budú stáť 2 (3, 5) metre? (2 metre budú 2-krát tolko stáť ako 1 m atd.)
 21) 3 hektolitre (*hl*) jačmeňa sú za 15 zl.; za koľko zl. prídu 4 (5, 2) *hl*? (Najprv: za koľko zl. príde 1 *hl*?)
 22) Ktorými peniazmi môžeme vyplatiť 36 krajciarov?
 23) Koľko mesiacov je $\frac{1}{2}$ ($\frac{1}{4}$, $\frac{3}{4}$, $1\frac{1}{4}$, $1\frac{3}{4}$, $\frac{1}{3}$, $\frac{2}{3}$) roka ?
 24) Nekto kúpil tovaru za 34 zl., a zarobil ma ňom 16 zl., tak za koľko zl. ho predal?
 25) 1 dekagram (*dkg*) = 10 gramov (*g*); koľko gramov sú 2 (4, 3, 5, $\frac{1}{5}$, $\frac{3}{5}$, $\frac{4}{5}$, $2\frac{1}{2}$, $3\frac{1}{5}$, $4\frac{2}{5}$) *dkg*?

3. Cvičenia s číslami po 70.

● ● ● ● ● ● ● ● ● ●	10	= 1 desiatka
● ● ● ● ● ● ● ● ● ●	20	= 2 desiatky
● ● ● ● ● ● ● ● ● ●	30	= 3 desiatky
● ● ● ● ● ● ● ● ● ●	40	= 4 desiatky
● ● ● ● ● ● ● ● ● ●	50	= 5 desiatok
● ● ● ● ● ● ● ● ● ●		= 6 desiatok
51 52 53 54 55 56 57 58 59 60		
● ● ● ● ● ● ● ● ● ●		= 7 desiatok
61 62 63 64 65 66 67 68 69 70		

1) Čítajte od 30 až po 70 a nazpät až po 1!

2) Nasledujúce čísla vyslovte a potom rozložte na desiatky a jednoruky!

a) 40, 54, 65, 66, 51, 50, 44, 52, 69, 68, 55;

b) 64, 57, 46, 70, 58, 61, 49, 62, 60, 63, 45;

c) 41, 56, 42, 47, 67, 43, 48, 59, 53.

a) Sčítanie.

$50 + 5 =$	$3 + 6 =$	$6 + 4 =$	$30 + 20 =$	$14 + 45 =$
$50 + 3 =$	$53 + 6 =$	$56 + 4 =$	$35 + 20 =$	$17 + 41 =$
$50 + 8 =$	$63 + 6 =$	$66 + 4 =$	$45 + 20 =$	$23 + 34 =$
$1 + 50 =$	$55 + 3 =$	$48 + 3 =$	$28 + 30 =$	$31 + 38 =$
$7 + 50 =$	$51 + 5 =$	$44 + 9 =$	$19 + 40 =$	$26 + 42 =$
$4 + 60 =$	$54 + 2 =$	$5 + 57 =$	$20 + 44 =$	$29 + 31 =$
$9 + 60 =$	$7 + 62 =$	$2 + 59 =$	$40 + 13 =$	$25 + 45 =$
$6 + 60 =$	$1 + 68 =$	$6 + 58 =$	$30 + 36 =$	$24 + 28 =$
$60 + 2 =$	$4 + 63 =$	$8 + 42 =$	$50 + 17 =$	$19 + 46 =$
$60 + 7 =$	$8 + 51 =$	$7 + 63 =$	$20 + 31 =$	$37 + 33 =$

b) Odčítanie.

$7 - 5 =$	$13 - 7 =$	$50 - 10 =$	$54 - 13 =$	$60 - 11 =$
$57 - 5 =$	$53 - 7 =$	$70 - 20 =$	$56 - 25 =$	$52 - 23 =$
$67 - 5 =$	$63 - 7 =$	$60 - 30 =$	$59 - 38 =$	$51 - 32 =$
$55 - 4 =$	$58 - 9 =$	$70 - 40 =$	$57 - 45 =$	$55 - 49 =$
$58 - 7 =$	$55 - 8 =$	$70 - 60 =$	$58 - 54 =$	$70 - 54 =$
$54 - 2 =$	$56 - 6 =$	$63 - 20 =$	$63 - 61 =$	$66 - 59 =$
$69 - 6 =$	$62 - 3 =$	$65 - 30 =$	$61 - 51 =$	$65 - 46 =$
$66 - 3 =$	$61 - 5 =$	$67 - 40 =$	$65 - 42 =$	$64 - 37 =$
$62 - 1 =$	$64 - 7 =$	$69 - 50 =$	$69 - 36 =$	$61 - 55 =$
$68 - 8 =$	$66 - 9 =$	$68 - 50 =$	$68 - 27 =$	$63 - 48 =$

c) Dodávanie.

$5 + \cdot = 20$	$40 + \cdot = 60$	$31 + \cdot = 68$	$27 + \cdot = 54$
$7 + \cdot = 30$	$30 + \cdot = 70$	$42 + \cdot = 67$	$29 + \cdot = 63$
$42 + \cdot = 46$	$45 + \cdot = 55$	$24 + \cdot = 66$	$18 + \cdot = 62$
$58 + \cdot = 63$	$33 + \cdot = 44$	$26 + \cdot = 59$	$15 + \cdot = 61$
$59 + \cdot = 66$	$56 + \cdot = 69$	$13 + \cdot = 65$	$36 + \cdot = 64$

d) Násobenie.

$1 \times \bullet \bullet \bullet \bullet \bullet \bullet 6$	$6 \times 1 =$	$1 \times \bullet \bullet \bullet \bullet \bullet \bullet 7$	$7 \times 1 =$
$2 \times \bullet \bullet \bullet \bullet \bullet \bullet 12$	$6 \times 2 =$	$2 \times \bullet \bullet \bullet \bullet \bullet \bullet 14$	$7 \times 2 =$
$3 \times \bullet \bullet \bullet \bullet \bullet \bullet 18$	$6 \times 3 =$	$3 \times \bullet \bullet \bullet \bullet \bullet \bullet 21$	$7 \times 3 =$
atď.		atď.	

$6 \times 4 =$	$5 \times 6 + 12 =$	$7 \times 3 =$	$2 \times 7 + 13 =$
$6 \times 2 =$	$4 \times 6 + 25 =$	$7 \times 4 =$	$6 \times 7 + 24 =$
$6 \times 5 =$	$2 \times 6 + 38 =$	$7 \times 5 =$	$5 \times 7 + 32 =$
$6 \times 3 =$	$3 \times 6 + 47 =$	$7 \times 2 =$	$3 \times 7 + 49 =$
$6 \times 6 =$	$1 \times 6 + 59 =$	$7 \times 6 =$	$1 \times 7 + 55 =$
$7 \times 6 =$	$6 \times 7 - 21 =$	$9 \times 7 =$	$4 \times 7 - 13 =$
$9 \times 6 =$	$6 \times 9 - 32 =$	$7 \times 7 =$	$7 \times 8 - 21 =$
$8 \times 6 =$	$6 \times 8 - 39 =$	$10 \times 7 =$	$7 \times 10 - 36 =$
$10 \times 6 =$	$6 \times 10 - 43 =$	$8 \times 7 =$	$7 \times 9 - 47 =$

$4 \times 10 =$	$3 \times 12 =$	$2 \times 15 =$	$2 \times 26 + 14 =$
$7 \times 10 =$	$3 \times 10 = 30$	$3 \times 18 =$	$3 \times 23 - 35 =$
$2 \times 20 =$	$3 \times 2 = 6$	$4 \times 17 =$	$2 \times 24 + 22 =$
$2 \times 30 =$	$3 \times 12 = 36$	$5 \times 14 =$	$2 \times 35 - 46 =$
$3 \times 20 =$		$6 \times 11 =$	$2 \times 28 + 13 =$

e) Meranie.

$18 = \cdot \times 6;$	$6 \vee 18 =$	$14 = \cdot \times 7;$	$7 \vee 14 =$
$6 = \cdot \times 6;$	$6 \vee 6 =$	$28 = \cdot \times 7;$	$7 \vee 28 =$
$30 = \cdot \times 6;$	$6 \vee 30 =$	$42 = \cdot \times 7;$	$7 \vee 42 =$
$12 = \cdot \times 6;$	$6 \vee 12 =$	$7 = \cdot \times 7;$	$7 \vee 7 =$
$48 = \cdot \times 6;$	$6 \vee 48 =$	$21 = \cdot \times 7;$	$7 \vee 21 =$
$24 = \cdot \times 6;$	$6 \vee 24 =$	$35 = \cdot \times 7;$	$7 \vee 35 =$
$36 = \cdot \times 6;$	$6 \vee 36 =$	$63 = \cdot \times 7;$	$7 \vee 63 =$
$60 = \cdot \times 6;$	$6 \vee 60 =$	$49 = \cdot \times 7;$	$7 \vee 49 =$
$42 = \cdot \times 6;$	$6 \vee 42 =$	$70 = \cdot \times 7;$	$7 \vee 70 =$
$54 = \cdot \times 6;$	$6 \vee 54 =$	$56 = \cdot \times 7;$	$7 \vee 56 =$

Kolkokrát obsažené je

6 v 50, 52, 57, 51, 54, 59, 53, 60, 55, 58, 56?**7** v 60, 64, 68, 61, 65, 70, 62, 66, 63, 67, 69?

f) Delenie.

$12 = 6 \times \cdot;$	$\frac{1}{6}$ zo 12 =	$21 = 7 \times \cdot;$	$\frac{1}{7}$ zo 21 =
$30 = 6 \times \cdot;$	$\frac{1}{6}$ zo 30 =	$7 = 7 \times \cdot;$	$\frac{1}{7}$ zo 7 =
$6 = 6 \times \cdot;$	$\frac{1}{6}$ zo 6 =	$28 = 7 \times \cdot;$	$\frac{1}{7}$ zo 28 =
$42 = 6 \times \cdot;$	$\frac{1}{6}$ zo 42 =	$14 = 7 \times \cdot;$	$\frac{1}{7}$ zo 14 =
$54 = 6 \times \cdot;$	$\frac{1}{6}$ z 54 =	$49 = 7 \times \cdot;$	$\frac{1}{7}$ zo 49 =
$18 = 6 \times \cdot;$	$3 = \frac{1}{6} z$	$70 = 7 \times \cdot;$	$10 = \frac{1}{7} zo$
$36 = 6 \times \cdot;$	$6 = \frac{1}{6} zo$	$35 = 7 \times \cdot;$	$5 = \frac{1}{7} zo$
$24 = 6 \times \cdot;$	$4 = \frac{1}{6} zo$	$63 = 7 \times \cdot;$	$9 = \frac{1}{7} zo$
$48 = 6 \times \cdot;$	$8 = \frac{1}{6} zo$	$42 = 7 \times \cdot;$	$6 = \frac{1}{7} zo$
$60 = 6 \times \cdot;$	$10 = \frac{1}{6} zo$	$56 = 7 \times \cdot;$	$8 = \frac{1}{7} zo$

Hľadajte

$\frac{1}{6}$ z 54, 56, 50, 58, 51, 55, 60, 52, 57, 53, 59;

$\frac{1}{7}$ zo 60, 65, 63, 68, 61, 66, 62, 69, 64, 67, 70.

1) Započnúc od 70 odčítajte striedavo a opätovne číslo 7 a pričítajte číslo 6!

2) Taktiež odčítajte číslo 16 a pričítajte číslo 15!

3) Násobte nasledujúce čísla:

a) $2 \times 11, 3 \times 11, 2 \times 12, 2 \times 13, 4 \times 11, 2 \times 14,$

$5 \times 11, 2 \times 15, 3 \times 12, 6 \times 11, 2 \times 16, 4 \times 12;$

b) $3 \times 13, 2 \times 17, 3 \times 14, 2 \times 18, 3 \times 15, 2 \times 19,$

$2 \times 21, 4 \times 13, 2 \times 22, 3 \times 16, 2 \times 23, 4 \times 14;$

c) $3 \times 17, 2 \times 24, 3 \times 18, 3 \times 25, 4 \times 15, 2 \times 26,$

$3 \times 18, 2 \times 27, 5 \times 12, 2 \times 28, 3 \times 19, 2 \times 29;$

d) $4 \times 16, 2 \times 31, 3 \times 21, 2 \times 32, 5 \times 13, 2 \times 33,$

$3 \times 22, 2 \times 34, 4 \times 17, 2 \times 35, 3 \times 23, 5 \times 14.$

4) Koľkokrát obsažené je

6 7 v 10, 11, 12 . . . 59, 60? (Takto: $6 \text{ v } 10 = 1(4)$)

7 v číslach od 60 po 70? $6 \text{ v } 11 = 1(5) \text{ atď.}$

5) Koľko je

$\frac{1}{6}, \frac{1}{7}$ z 10, 11, 12 . . . 59, 60? (Takto: $\frac{1}{6} \text{ z } 10 = \frac{1^4}{6}$)

$\frac{1}{7}$ čísel od 60 po 70? $\frac{1}{6} \text{ z } 11 = \frac{1^5}{6} \text{ atď.}$

6) Hodina = 60 minút; koľko minút je $\frac{1}{2}$ ($\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{1}{3}, \frac{2}{3}$) hodiny?

7) Otec má platiť ročne dane 42 zl. 70 kr.; keď zaplatí na to 16 zl. 32 kr., koľko ostane mu ešte platiť?

8) Minuta = 60 sekund; koľko sekund je $\frac{1}{6}$ ($\frac{2}{6}, \frac{3}{6}, \frac{5}{6}$) minuty?

9) 1 méter stužky stojí 7 kr.; za koľko kr. budú 3 (2, 4, 5 . . . 9, 10) m?

10) Kopa = 60 kusov; koľko kus. je $\frac{1}{4}$ ($\frac{1}{2}, \frac{1}{6}, \frac{1}{10}$) kopy?

11) Medzi $\frac{1}{2}, \frac{1}{3}$ a $\frac{1}{4}$ ktorá čiastka je najmenšia a ktorá najväčšia?

12) Za 7 zl. dostaneme 42 metrov; koľko za 1 zl? (Za 1 zl. len 7my diel zo 42 m) A koľko za 3 (5, 8, 10) zl.?

13) Ktorá čiastka je menej ako $\frac{1}{2}$ a viac ako $\frac{1}{4}$?

14) $\frac{3}{4}$ hodiny je viac lebo menej ako 1 hodina? O koľko?

15) 40 minút je viac lebo menej ako 1 hodina? O koľko?

16) Vo dvoch triedach je nasledujúci počet žiakov: v I. triede je 18 chlapcov a 20 dievčienec, v II. 15 chlapcov a 14 dievčienec. Koľko žiakov je v oboch triedach spolu? — koľko chlapcov? a koľko dievčienec?

- 17) Koľko krajciarov je 6 desiatnikov a 7 kr.?
- 18) Nektó kúpil za 45 zl. tovaru a predal ho za 69 zl.; jak veľký bol jeho zárobok?
- 19) Koľko desiatnikov a krajciarov je 56 kr. (64 kr.)?
- 20) Hostinský kúpil 5 tuctov pohárov; koľko kusov pohárov kúpil?
- 21) Keď hostinský za všetkých 5 tuctov pohárov platil 6 zl., koľko to bolo desiatnikov? A za koľko desiatnikov prišiel mu jeden pohár?
- 22) Koľko dní sú 2 (3, 4, 5 10) týždne?
- 23) V sade stálo 12 jabloní, 13 hrušiek, 6 marhulí a 8 sliviek; k týmto presadili ešte 3 jablone 9 sliviek, 11 hrušiek a 5 marhúl. Koľko bolo teraz v sade jabloní? koľko sliviek? koľko hrušiek? a koľko marhúl? Koľko stálo v sade všetkých stromov najprv? a koľko po novom presádzaní?
- 24) Koľko dní je $\frac{1}{7}$ ($\frac{2}{7}$, $\frac{3}{7}$, $\frac{5}{7}$, $2\frac{1}{7}$) týždňa?
- 25) Istý dobrodinec daroval 7 chudobným nádennikom 63 zl.; koľko ušlo sa z toho každému?
- 26) Koľko týždňov a dní je 14 (15, 21, 49, 50, 70) dní?

4. Cvičenia s číslami po 100.

● ● ● ● ● ● ● ● ● ●	10	=	1 desiatka
● ● ● ● ● ● ● ● ● ●	20	=	2 desiatky
● ● ● ● ● ● ● ● ● ●	30	=	3 desiatky
● ● ● ● ● ● ● ● ● ●	40	=	4 desiatky
● ● ● ● ● ● ● ● ● ●	50	=	5 desiatok
● ● ● ● ● ● ● ● ● ●	60	=	6 desiatok
● ● ● ● ● ● ● ● ● ●	70	=	7 desiatok
● ● ● ● ● ● ● ● ● ●		=	8 desiatok
71 72 73 74 75 76 77 78 79 80		=	9 desiatok
● ● ● ● ● ● ● ● ● ●		=	10 desiatok
81 82 83 84 85 86 87 88 89 90			
● ● ● ● ● ● ● ● ● ●		=	10 desiatok
91 92 93 94 95 96 97 98 99 100			

1) Čítajte od 50 až po 100 a nazpät až po 1!

2) Nasledujúce čísla vyslovte a potom rozložte na desiatky a jednotky!

a) 72, 83, 98, 71, 94, 81, 99, 75, 84, 80;

b) 92, 95, 97, 82, 96, 88, 89, 93, 73, 74;

c) 79, 85, 77, 76, 86, 91, 87, 78, 90, 100.

a) Sčítanie.

$70 + 2 + 3 =$	$66 + 4 + 10 =$	$62 + 14 =$	$56 + 16 =$
$70 + 5 + 1 =$	$65 + 6 + 10 =$	$51 + 26 =$	$48 + 23 =$
$4 + 70 + 5 =$	$44 + 9 + 20 =$	$56 + 23 =$	$49 + 35 =$
$6 + 70 + 2 =$	$54 + 7 + 20 =$	$47 + 31 =$	$36 + 47 =$
$80 + 4 + 4 =$	$8 + 57 + 20 =$	$62 + 25 =$	$37 + 54 =$
$80 + 1 + 8 =$	$5 + 68 + 10 =$	$53 + 34 =$	$25 + 65 =$
$7 + 80 + 2 =$	$7 + 69 + 10 =$	$42 + 46 =$	$14 + 67 =$
$5 + 80 + 3 =$	$6 + 76 + 10 =$	$31 + 57 =$	$19 + 56 =$
$3 + 90 + 4 =$	$10 + 67 + 8 =$	$64 + 35 =$	$23 + 68 =$
$6 + 90 + 1 =$	$20 + 65 + 9 =$	$56 + 42 =$	$38 + 44 =$
$90 + 3 + 5 =$	$30 + 54 + 7 =$	$32 + 53 =$	$40 + 60 =$
$90 + 2 + 7 =$	$40 + 58 + 2 =$	$37 + 62 =$	$34 + 66 =$

b) Odčítanie.

$73 - 2 =$	$72 - 3 =$	$80 - 20 =$	$96 - 22 =$	$73 - 24 =$
$76 - 3 =$	$86 - 8 =$	$90 - 40 =$	$84 - 31 =$	$95 - 28 =$
$79 - 7 =$	$91 - 5 =$	$100 - 50 =$	$72 - 40 =$	$80 - 31 =$
$74 - 1 =$	$83 - 6 =$	$100 - 80 =$	$85 - 54 =$	$90 - 32 =$
$85 - 3 =$	$75 - 7 =$	$75 - 10 =$	$97 - 53 =$	$100 - 44 =$
$88 - 6 =$	$95 - 9 =$	$97 - 30 =$	$78 - 65 =$	$84 - 57 =$
$82 - 2 =$	$71 - 4 =$	$84 - 20 =$	$84 - 62 =$	$78 - 69 =$
$87 - 5 =$	$98 - 9 =$	$93 - 40 =$	$79 - 73 =$	$97 - 78 =$
$96 - 4 =$	$81 - 2 =$	$78 - 50 =$	$96 - 61 =$	$82 - 56 =$
$98 - 7 =$	$76 - 8 =$	$86 - 70 =$	$85 - 82 =$	$71 - 43 =$
$97 - 5 =$	$84 - 7 =$	$92 - 80 =$	$98 - 74 =$	$86 - 69 =$
$99 - 4 =$	$90 - 1 =$	$99 - 90 =$	$99 - 46 =$	$100 - 85 =$

c) Dodávanie.

$83 + . = 86$	$70 + . = 80$	$62 + . = 75$	$56 + . = 73$
$75 + . = 79$	$80 + . = 100$	$74 + . = 89$	$47 + . = 81$
$92 + . = 98$	$74 + . = 94$	$83 + . = 97$	$39 + . = 96$
$84 + . = 90$	$74 + . = 96$	$75 + . = 98$	$24 + . = 100$
$76 + . = 85$	$82 + . = 95$	$63 + . = 96$	$18 + . = 87$
$88 + . = 99$	$81 + . = 98$	$51 + . = 93$	$68 + . = 91$

d) Násobenie.

$$\begin{array}{l}
 1 \times \dots \dots \dots 8 \quad 8 \times 1 = \\
 2 \times \dots \dots \dots 16 \quad 8 \times 2 = \\
 3 \times \dots \dots \dots 24 \quad 8 \times 3 = \\
 \text{atd.}
 \end{array}
 \quad \left| \quad
 \begin{array}{l}
 1 \times \dots \dots \dots 9 \quad 9 \times 1 = \\
 2 \times \dots \dots \dots 18 \quad 9 \times 2 = \\
 3 \times \dots \dots \dots 27 \quad 9 \times 3 = \\
 \text{atd.}
 \end{array}$$

$$\begin{array}{l}
 1 \times \dots \dots \dots 10 \quad 10 \times 1 = \\
 2 \times \dots \dots \dots 20 \quad 10 \times 2 = \\
 \text{atd.}
 \end{array}$$

$$\begin{array}{l}
 8 \times 3 = \quad 5 \times 9 = \quad 10 \times 2 = \quad 8 \times 6 + 21 = \\
 8 \times 6 = \quad 2 \times 9 = \quad 10 \times 5 = \quad 8 \times 3 + 55 = \\
 8 \times 2 = \quad 7 \times 9 = \quad 10 \times 7 = \quad 8 \times 7 + 32 = \\
 8 \times 4 = \quad 4 \times 9 = \quad 10 \times 3 = \quad 5 \times 9 + 36 = \\
 7 \times 8 = \quad 9 \times 3 = \quad 10 \times 9 = \quad 2 \times 9 + 63 = \\
 9 \times 8 = \quad 9 \times 9 = \quad 4 \times 10 = \quad 9 \times 9 - 31 = \\
 5 \times 8 = \quad 9 \times 6 = \quad 6 \times 10 = \quad 10 \times 4 - 27 = \\
 8 \times 8 = \quad 9 \times 8 = \quad 8 \times 10 = \quad 10 \times 8 - 54 = \\
 10 \times 8 = \quad 9 \times 10 = \quad 10 \times 10 = \quad 10 \times 10 - 68 =
 \end{array}$$

$$\begin{array}{l}
 3 \times 20 = \quad 6 \times 12 + 11 = \quad 2 \times 44 - 35 = \quad 2 \times 37 + 18 = \\
 4 \times 20 = \quad 5 \times 15 + 13 = \quad 3 \times 32 - 42 = \quad 3 \times 32 - 37 = \\
 2 \times 40 = \quad 4 \times 18 + 26 = \quad 4 \times 23 - 61 = \quad 2 \times 36 + 19 = \\
 3 \times 30 = \quad 3 \times 24 + 25 = \quad 5 \times 17 - 73 = \quad 4 \times 25 - 64 = \\
 5 \times 20 = \quad 4 \times 16 + 36 = \quad 6 \times 16 - 54 = \quad 5 \times 14 + 26 =
 \end{array}$$

e) Meranie.

$$\begin{array}{l}
 16 = \quad \times 8; \quad 8 \quad \vee \quad 16 = \quad 81 = \quad \times 9; \quad 9 \quad \vee \quad 81 = \\
 40 = \quad \times 8; \quad 8 \quad \vee \quad 40 = \quad 36 = \quad \times 9; \quad 9 \quad \vee \quad 36 = \\
 56 = \quad \times 8; \quad 8 \quad \vee \quad 56 = \quad 63 = \quad \times 9; \quad 9 \quad \vee \quad 63 = \\
 24 = \quad \times 8; \quad 8 \quad \vee \quad 24 = \quad 18 = \quad \times 9; \quad 9 \quad \vee \quad 18 = \\
 48 = \quad \times 8; \quad 8 \quad \vee \quad 48 = \quad 72 = \quad \times 9; \quad 9 \quad \vee \quad 72 = \\
 72 = \quad \times 8; \quad 8 \quad \vee \quad 72 = \quad 27 = \quad \times 9; \quad 9 \quad \vee \quad 27 = \\
 8 = \quad \times 8; \quad 8 \quad \vee \quad 8 = \quad 90 = \quad \times 9; \quad 9 \quad \vee \quad 90 = \\
 32 = \quad \times 8; \quad 8 \quad \vee \quad 32 = \quad 9 = \quad \times 9; \quad 9 \quad \vee \quad 9 = \\
 64 = \quad \times 8; \quad 8 \quad \vee \quad 64 = \quad 45 = \quad \times 9; \quad 9 \quad \vee \quad 45 = \\
 80 = \quad \times 8; \quad 8 \quad \vee \quad 80 = \quad 54 = \quad \times 9; \quad 9 \quad \vee \quad 54 =
 \end{array}$$

$$\begin{array}{l}
 10 \quad \vee \quad 30 = \quad 10 \quad \vee \quad 10 = \quad 10 \quad \vee \quad 70 = \quad 10 \quad \vee \quad 20 = \quad 10 \quad \vee \quad 60 = \\
 10 \quad \vee \quad 50 = \quad 10 \quad \vee \quad 40 = \quad 10 \quad \vee \quad 90 = \quad 10 \quad \vee \quad 100 = \quad 10 \quad \vee \quad 80 =
 \end{array}$$

Koľkokrát obsažené je

8 v 73, 71, 76, 80, 75, 72, 79, 70, 74, 77, 78 ?

9 v 80, 85, 81, 86, 89, 90, 82, 84, 87, 83, 88 ?

10 v 91, 97, 93, 99, 100, 92, 98, 90, 94, 96, 95 ?

f) Delenie.

40 = 8 × .;	$\frac{1}{8}$ zo 40 =	18 = 9 × .;	$\frac{1}{9}$ z 18 =
16 = 8 × .;	$\frac{1}{8}$ zo 16 =	45 = 9 × .;	$\frac{1}{9}$ zo 45 =
32 = 8 × .;	$\frac{1}{8}$ zo 32 =	9 = 9 × .;	$\frac{1}{9}$ z 9 =
64 = 8 × .;	$\frac{1}{8}$ zo 64 =	63 = 9 × .;	$\frac{1}{9}$ zo 63 =
24 = 8 × .;	$\frac{1}{8}$ zo 24 =	27 = 9 × .;	$\frac{1}{9}$ zo 27 =
72 = 8 × .;	9 = $\frac{1}{8}$ zo	81 = 9 × .;	9 = $\frac{1}{9}$ z
8 = 8 × .;	1 = $\frac{1}{8}$ z	36 = 9 × .;	4 = $\frac{1}{9}$ zo
80 = 8 × .;	10 = $\frac{1}{8}$ z	90 = 9 × .;	10 = $\frac{1}{9}$ z
48 = 8 × .;	6 = $\frac{1}{8}$ zo	54 = 9 × .;	6 = $\frac{1}{9}$ z
56 = 8 × .;	7 = $\frac{1}{8}$ z	72 = 9 × .;	8 = $\frac{1}{9}$ zo

$\frac{1}{10}$ zo 40 =	$\frac{1}{10}$ zo 60 =	$\frac{1}{10}$ zo 30 =	$\frac{1}{10}$ z 50 =	$\frac{1}{10}$ z 90 =
$\frac{1}{10}$ zo 20 =	$\frac{1}{10}$ zo 100 =	$\frac{1}{10}$ zo 70 =	$\frac{1}{10}$ z 80 =	$\frac{1}{10}$ z 10 =

Hľadajte

$\frac{1}{8}$ zo 70, 73, 78, 72, 75, 80, 71, 74, 76, 79, 77;
 $\frac{1}{9}$ z 82, 86, 88, 81, 90, 83, 80, 84, 87, 85, 89;
 $\frac{1}{10}$ z 96, 90, 93, 97, 92, 95, 99, 91, 94, 100, 98.

1) Započnúc od 100 odčítajte striedavo a opätovne číslo 9 a pričítajte číslo 8!

2) Taktiež odčítajte číslo 18 a pričítajte číslo 17!

3) A ešte odčítajte číslo 20 a pričítajte číslo 19!

4) Násobte nasledujúce čísla tým číslom, ktoré na predku každého radu stojí.

2 × 36, 40, 50, 45, 39, 44, 37, 41, 38, 49, 42, 43,
48, 46, 47;

3 × 24, 30, 28, 33, 25, 29, 31, 26, 32, 27;

4 × 18, 20, 24, 19, 21, 25, 22, 23;

5 × 17, 15, 20, 16, 18, 19;

6 × 16, 14, 12, 13, 15;

7 × 11, 13, 14, 12;

8 × 12, 11;

9 × 11,

(Takto :

2 × 36 = 72

2 × 40 = 80

atď.

3 × 24 = 72

2 × 30 = 90

atď.)

5) Koľkokrát obsažené je

2, 3, 4, 5	v 10, 11, 12, 13, 14	19, 20 ?
3, 4, 5, 6	v číslach od 20 po	30 ?
4, 5, 6, 7	" " 30 " "	40 ?
5, 6, 7, 8	" " 40 " "	50 ?
6, 7, 8, 9	" " 50 " "	60 ?
7, 8, 9, 10	" " 60 " "	70 ?
8, 9, 10	" " 70 " "	80 ?
9, 10	" " 80 " "	90 ?
10	" " 90 " "	100 ?

6) Koľko je

$\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}$	z 10, 11, 12, 13, 14	19, 20 ?
$\frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}$	čísel od 20 po	30 ?
$\frac{1}{4}, \frac{1}{5}, \frac{1}{6}, \frac{1}{7}$	" " 30 " "	40 ?
$\frac{1}{5}, \frac{1}{6}, \frac{1}{7}, \frac{1}{8}$	" " 40 " "	50 ?
$\frac{1}{6}, \frac{1}{7}, \frac{1}{8}, \frac{1}{9}$	" " 50 " "	60 ?
$\frac{1}{7}, \frac{1}{8}, \frac{1}{9}, \frac{1}{10}$	" " 60 " "	70 ?
$\frac{1}{8}, \frac{1}{9}, \frac{1}{10}$	" " 70 " "	80 ?
$\frac{1}{9}, \frac{1}{10}$	" " 80 " "	90 ?
$\frac{1}{10}$	" " 90 " "	100 ?

7) Koľko desiatnikov a krajciarov je 75 (96, 82) kr. ?

8) 100 kr. = 10 desiatnikov = 1 zlatý. Koľko zl. a kr. je 16 (25, 38, 62, 76, 94, 87, 99) desiatnikov ?

9) Vozka naložil tri bedny; prvá váži 29, druhá 35 a tretia 19 kilogramov; koľko *kg* váža všetky 3 bedny spolu ?

10) Rys papieru = 10 kníh; 1 kniha = 10 vrstiev; 1 vrstva — 10 hárkov. Koľko hárkov má teda 1 kniha? koľko vrstiev 1 rys? Koľko hárkov je vo 2 (3, 6, $5\frac{1}{2}$, 9) vrstvách? Koľko kníh je 5 (3, 7, 8) rysov?

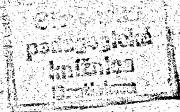
11) Jožko kúpil si čítanku za 35 kr.; počtovnicu za 10 kr. a maďarskú knižočku za 14 kr., platil zlatkou; koľko kr. dostal nazpät ?

12) Ktosi rozdelil 6 žobrákom 72 kr. rovným dielom; koľko dostane každý žobrák ?

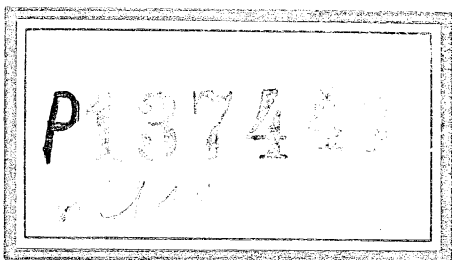
13) Koľko krajciarov je $\frac{1}{2}$ ($\frac{1}{4}, \frac{3}{4}, \frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}$ zl. ? $\frac{1}{10}, \frac{2}{10}, \frac{3}{10} \frac{8}{10}, \frac{9}{10}$ zl. ?

14) Nekto spotrebuje denne 1 zlatý; koľko spotrebuje za 2 mesiace a 27 dní ?

- 15) Ondrej dostal kopu orechov a dal z nich štvrtinu svojej sestričke Anne; koľko orechov si nechal?
- 16) Koľko decilitrov je 5 (2, 3, 7, 9) litrov?
- 17) Roľník má 29 sliepok, 23 husí a 15 kačíc; koľko kusov hydu má dohromady?
- 18) 1 kilogram = 100 dekagramov (*dkg*). Koľko dekagr. je $\frac{1}{2}$ ($\frac{1}{4}$, $\frac{1}{5}$, $\frac{3}{5}$, $\frac{1}{10}$, $\frac{7}{10}$) kilogram.?
- 19) Roľník zasial 13 hektolitrov žita, a namlátal 91 *hl*; koľkeronásobnú mal úrodu?
- 20) Koľko mesiacov je $\frac{1}{2}$ ($\frac{1}{3}$, $\frac{1}{4}$, $\frac{3}{4}$, $\frac{1}{6}$, $\frac{5}{6}$) roka?
- 21) Nekto má jeden zlatý a vydá 30 (80, 28, 15, 59, 24, 82, 93, 48, 76) kr.; koľko krajciarov mu zvýši?
- 22) Koľko centimetrov je $\frac{1}{2}$ ($\frac{1}{4}$, $\frac{1}{5}$, $\frac{4}{5}$, $\frac{1}{10}$, $\frac{7}{10}$) *m*?
- 23) V jednej domácnosti spotrebujú denne 3 dekagr. kávy; koľko *dkg* kávy spotrebujú za 4 týždne?
- 24) Keď je liter za 80 kr., za koľko kr. bude deciliter? (Za $\frac{1}{10}$ z 80 kr. = . kr.)
- 25) Služka má 56 zl. 24 kr. platu ročne; koľko jej príde na 3 mesiace?
- 26) Keď je 8 sliviek za krajciar, koľko za 7 (5, 9, 6 ...) kr.?
- 27) Služka dostane 1 zl. na kúpu a prinese domov 2 *kg* rýže po 32 kr., 3 viazaničky mrkvy po 4 kr. a za 18 kr. vajec; koľko peněz má ešte vrátiť?
- 28) Koľko ovocných stromov potrebujeme na 63 metrov dlhý kus cesty, má-li strom od stromu 7 *m* vzdialený byť?
- 29) Krava spotrebovala za 9 dní 65 *kg* sena; koľko priemerne denne?
- 30) 12 litrov stojí 3 zl.; koľko stoja 4 (3, 2, 6) litre?
4 litre sú 3-tí diel 12 litrov; 4 *l* stoja tedy len 3-tí diel 3 zl., t. j. 1 zl.
- 31) 20 metrov je za 85 zl.; za koľko zl. budú 4 (5, 10) *m*?
- 32) 3 kilogram. stoja 18 zl.; koľko zl. stojí 7 (8, 10, 14, 16) *kg*?
- 3 kilogramy stoja 18 zl.
1 kilogram stojí $\frac{1}{3}$ z 18 zl. = 6 zl.
7 kilogramov " 7×6 " = 42 zl.
- 33) 5 *hl* stojí 25 zl.; čo bude stať 6 (8, 12, 16, 20) *hl*?



N_o



1×	2	3							
2×	4	6							
3×	6	9							
4×	8	12	16	20	24	28	32	36	40
5×	10	15	20	25	30	35	40	45	50
6×	12	18	24	30	36	42	48	54	60
7×	14	21	28	35	42	49	56	63	70
8×	16	24	32	40	48	56	64	72	80
9×	18	27	36	45	54	63	72	81	90
10×	20	30	40	50	60	70	80	90	100

Peniaze, miery a váhy.

1 zlatý (zl.) = 10 desiatnikov = 100 krajciarov (kr.).

1 méter (m) = 10 decimetrov (dm) = 100 centimetrov (cm);
1 deciméter = 10 centimetrov.

1 hektoliter (hl) = 100 litrov (l); 1 liter = 10 decilitrov (dl).

1 kilogram (kg) = 100 dekagramov (dkg); 1 dkg = 100 gramov (gr).

1 rys papiera = 10 kníh; 1 kniha = 10 vrstiev; 1 vrstva = 10 hárkov.

1 kopa = 60 kusov. 1 tucet = 12 kusov.

1 rok = 12 mesiacov; 1 mesiac = 30 dní (priemerne);

1 týdeň = 7 dní; 1 deň = 24 hodín;

1 hodina = 60 minút; 1 minuta = 60 sekund.