

I.-1711 d.

Schválena výnosem vys. c. k. ministerstva kultu a vyučování
ze dne 19. prosince 1898 č. 32.522.

PRVNÍ

Početnice

pro

školy obecné ménětřídní.

Sepsali učitelé:

→ JAN KOZÁK A JAN ROČEK. ←

III. vydání.

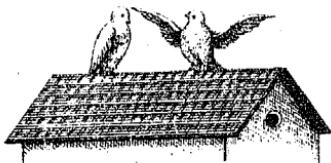


SMÍCHOV.

Tiskem a nákladem V. Neuberta na Smíchově.
1899.



+ ○ | □ • Q h -



□□ // ○○ | ●● ++ ●●

h ●● □○○ | = Q ++

●○●○●○ | ||//\ \ =

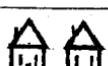
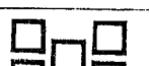
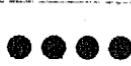
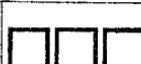
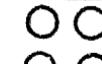
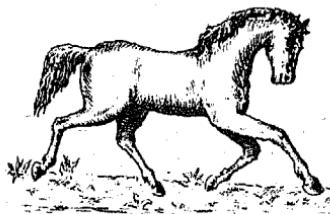


●●● QQQ □□□ △△△ ○○○ ●●●●

h h h | ●●● | □□□ | - + + + ○○

●○○ | ●●● | ○○○ | □□□ | □□□

○○○ | ●●●● | ○○○ | ●●● | ○○○ | ●●●●



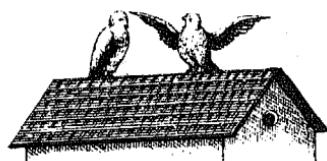


$$= 1 \quad = 1 \quad = 1$$

$$+ = 1 \quad \bullet = 1 \quad \circ = 1 \quad \textcircled{1} = 1$$

$$\square = \text{House} = \text{h} = \text{Q} =$$

$$\bullet = \triangle = \text{Tree} = \textcircled{1} =$$



2



$$\square \square = 2 \quad \bullet \bullet = 2 \quad \circ \circ = 2 \quad \textcircled{1} \textcircled{1} = 2$$

$$\circ \circ = \text{++} = \text{QQ} = \text{Tree Tree} =$$

$$\bullet = 1 \quad \bullet \bullet = 2 \quad \circ = \circ \circ =$$

$$\boxed{} = \textcircled{1} = \bullet \bullet = \text{h} =$$



3



$\bullet\bullet = 3$

$+++=3$

$\square\square\square=3$

$\circ\circ\circ=3$

$\square=1$

$\blacksquare=\square$

$\square\square\square=\square$

$\bullet\bullet=\bullet$

$\circ\circ=\circ$

$\bullet=\bullet$

$\textcircled{1}\textcircled{1}=1$

$h\bar{h}=2$

$\bullet\bullet\bullet=3$

$\text{tree}=1$

$Q\bar{Q}=2$

$\square..=3$

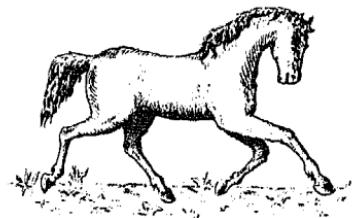
$\circ.=2$

$\blacksquare..=3$

$\triangle=1$



4



$\bullet\bullet=4$

$\circ\circ=4$

$\square\square=4$

$Q\bar{Q}=4$

$\bullet=\bullet$

$\circ\circ=\circ$

$\bullet\bullet=\bullet$

$\circ\circ=\circ$

$\circ\circ\circ=\circ$

$\circ\circ\circ=\circ$

$\bullet\bullet\bullet\bullet=4$

$\text{tree}=\text{tree}$

$\square\square\square=\square$

$\textcircled{1}\textcircled{1}=1$

$\text{house}=1$

$\circ..=4$

$\square..=3$

$\triangle=4$

$+=1$

$Q.=2$



5



$\circ\circ\circ = 3$

$\bullet\bullet\bullet = 3$

$\square\square\square = 3$

$\circ\circ\circ = 3$

$\bullet =$

$\circ\circ =$

$\bullet\bullet =$

$\circ\circ =$

$\bullet\bullet\bullet =$

$\text{h}\text{h} =$

$\square\square\square =$

$\bullet\bullet\bullet =$

$+++=$

$\square\dots=4$

$\circ\circ\circ=5$

$\triangle\dots=3$

$\circ\circ\circ=5$



+

$\bullet+\bullet=2$

$\circ\circ+\circ=3$

$\bullet\bullet+\bullet=4$

$\circ\circ\circ+\circ=5$

$\circ+\circ=$

$\bullet\bullet+\bullet=$

$\circ\circ\circ+\circ=$

$\bullet\bullet\bullet+\bullet=$

$\square+\square=$

$\square\square+\square=$

$\square+\square=$

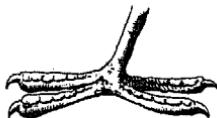
$\square\square\square+\square=$

$\triangle\triangleright\triangleright+\triangleright=$

$\triangleright\triangleright+\blacktriangleleft=$

$\triangle+\triangle=$

$\blacktriangle\blacktriangle\blacktriangle+\blacktriangleleft=$



$$\circ + \circ =$$

$$\circ + \circ =$$

$$\circ\circ + \circ =$$

$$\circ + \circ\circ =$$

$$\bullet + \bullet\bullet =$$

$$\circ + \circ\circ =$$

$$\bullet + \bullet =$$

$$\circ + \circ =$$

$$\bullet\bullet + \bullet =$$

$$\square + \square =$$

$$\blacksquare + \blacksquare =$$

$$\square + \square =$$

$$\blacksquare + \blacksquare =$$

$$\square + \square\square =$$

$$\blacktriangle + \blacktriangledown\blacktriangledown =$$

$$\blacktriangledown + \blacktriangledown =$$

$$\blacktriangledown + \blacktriangleright\blacktriangle =$$

$$\blacktriangleright + \blacktriangleright\blacktriangle =$$

$$\blacktriangleright + \blacktriangleright\blacktriangle =$$

+ 1 1 +

$$\bullet + \bullet = 2$$

$$\circ + \circ =$$

$$\square\square\square + \square =$$

$$\bullet + \bullet\bullet\bullet =$$

$$1 + 1 = 2$$

$$1 + 1 =$$

$$3 + 1 =$$

$$1 + 4 =$$

$$\bullet\bullet + \bullet =$$

$$\circ + \circ =$$

$$\square + \square =$$

$$\bullet + \bullet\bullet =$$

$$2 + 1 =$$

$$1 + 2 =$$

$$1 + 2 =$$

$$1 + 2 =$$

$$\bullet\bullet\bullet + \bullet =$$

$$\circ + \circ\circ =$$

$$\square\square\square + \square =$$

$$\bullet + \bullet\bullet =$$

$$3 + 1 =$$

$$1 + 3 =$$

$$4 + 1 =$$

$$1 + 3 =$$

$$\bullet\bullet + \bullet =$$

$$\circ + \circ\circ =$$

$$\square\square + \square =$$

$$\bullet + \bullet =$$

$$4 + 1 =$$

$$1 + 4 =$$

$$2 + 1 =$$

$$1 + 1 =$$

+ 2, + 3, + 4.

1

$\bullet + \bullet =$	$\circ + \circ =$	$\bullet + \bullet \bullet =$	$\circ \circ + \circ =$
$1 + 2 =$	$2 + 2 =$	$1 + 3 =$	$4 + 1 =$
$\bullet + \bullet \bullet =$	$\circ + \circ =$	$\bullet \bullet \bullet + \bullet =$	$\circ + \circ \circ =$
$1 + 3 =$	$2 + 3 =$	$3 + 1 =$	$1 + 4 =$
$\bullet + \bullet \bullet =$	$\circ + \circ =$	$\bullet + \bullet \bullet =$	$\circ \circ + \circ =$
$1 + 4 =$	$1 + 1 =$	$1 + 2 =$	$3 + 2 =$

2

$\circ + \circ =$	$\bullet + \bullet =$	$\circ + \circ =$	$\bullet + \bullet \bullet =$
$2 + 1 =$	$1 + 1 =$	$2 + 2 =$	$1 + 4 =$
$\bullet \bullet \bullet + \bullet =$	$\circ + \circ \circ =$	$\bullet + \bullet \bullet =$	$\circ + \circ =$
$\circ \circ + \circ =$	$\bullet + \bullet \bullet =$	$\circ + \circ \circ =$	$\bullet \bullet \bullet + \bullet =$

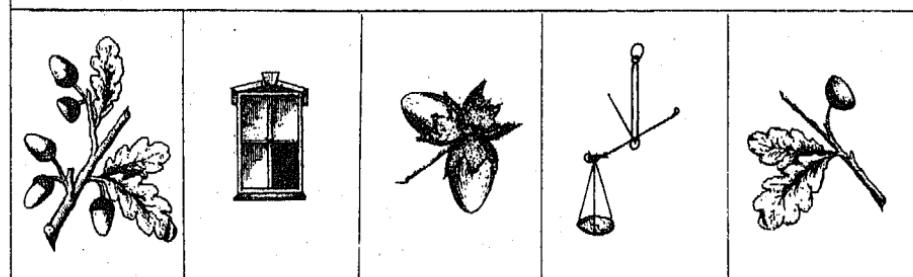
3

$\bullet \bullet + \bullet =$	$\bullet + \bullet =$		
$4 + 1 =$	$2 + 2 =$	$1 + 3 =$	$1 + 4 =$
$3 + 1 =$	$3 + 2 =$	$2 + 3 =$	$1 + 3 =$
$2 + 1 =$	$1 + 1 =$	$1 + 2 =$	$2 + 3 =$

?

$\bullet + \bullet =$	$\circ + \circ =$	$Q + ? = 2$	$\bullet + ? = 5$
$1 + ? = 2$	$2 + ? = 3$	$1 + ? = 2$	$1 + ? = 5$
$\bullet + \bullet =$	$\circ + \circ =$	$Q + ? = 4$	$\bullet \bullet \bullet + ? = 4$
$1 + ? = 3$	$2 + ? = 4$	$1 + ? = 4$	$3 + ? = 4$
$\bullet + \bullet \bullet \bullet =$	$\circ + \circ \circ \circ =$	$Q + ? = 3$	$\bullet \bullet \bullet + ? = 5$
$1 + ? = 4$	$2 + ? = 5$	$1 + ? = 3$	$3 + ? = 5$
$\bullet + \bullet \bullet \bullet =$	$\circ \circ \circ + \circ \circ =$	$\circ \circ + ? = 5$	$\bullet \bullet \bullet + ? = 5$
$1 + ? = 5$	$3 + ? = 5$	$2 + ? = 5$	$4 + ? = 5$

- 1



$\bullet \bullet \bullet = 4$	$\circ =$	$\square \square =$	$\bullet + \bullet =$
$\circ \circ = 3$	$\bullet =$	$\blacksquare \blacksquare =$	$\circ =$
$\bullet \bullet \bullet = 2$	$\circ \circ \circ =$	$\square \square \square =$	$\bullet \bullet \bullet + \bullet =$
$\circ \circ = 1$	$\bullet \bullet \bullet =$	$\blacksquare =$	$\circ \circ \circ =$
$\bullet = 0$	$\circ \circ \circ =$	$\square \square \square =$	$\bullet \bullet \bullet + \bullet =$

- 2

$\ominus \ominus =$	$\square \square \square \square =$	$\circ \ominus =$	$\bullet \bullet \bullet =$
$\circ \circ \circ =$	$\blacksquare \blacksquare \blacksquare =$	$\bullet \bullet =$	$\circ \circ =$
$\circ \circ =$	$\square \square \square =$	$\circ \circ \ominus =$	$\bullet \bullet \bullet \bullet =$
$\bullet \bullet \bullet \bullet =$	$\blacksquare \blacksquare =$	$\bullet \bullet \bullet \bullet =$	$\circ \circ \circ \bullet =$

- 2, + 2

$\bullet + \bullet \bullet =$	$\circ \circ =$	$\bullet \bullet \bullet + \bullet =$	$\circ \circ \circ + \circ =$
$\circ \ominus \ominus =$	$\bullet \bullet \bullet + \bullet \bullet =$	$\circ \circ =$	$\bullet \bullet \bullet \bullet =$
$\bullet \bullet + \bullet \bullet =$	$\circ \circ \ominus =$	$\bullet \bullet =$	$\ominus =$

- 3, - 4, - 5

$\bullet \bullet \bullet =$	$\square \square \square \square =$	$\bullet \bullet \bullet =$	$\bullet \bullet =$
$\circ \ominus =$	$\blacksquare \blacksquare \blacksquare =$	$\bullet \bullet \bullet =$	$\circ \circ \circ =$
$\bullet \bullet \bullet \bullet =$	$\square \square \square \square =$	$\bullet \bullet \bullet =$	$\bullet \bullet \bullet =$
$\ominus \ominus =$	$\blacksquare \blacksquare =$	$\circ \circ =$	$\circ \circ \ominus =$
$\bullet \bullet \bullet \bullet =$	$\square \square =$	$\bullet \bullet \bullet =$	$\bullet \bullet \bullet =$
$\circ \circ \circ =$	$\blacksquare \blacksquare =$	$\circ \circ =$	$\circ \circ \circ =$

- 1 + 1

$\bullet =$	$8\underset{0}{8} =$	$\bullet\bullet + \bullet =$	$8\underset{8}{8} =$
$1 - 1 =$	$4 - 1 =$	$2 + 1 =$	$4 - 1 =$
$\bullet\bullet =$	$8\underset{0}{8} =$	$\bullet\bullet\bullet =$	$88 + 0 =$
$2 - 1 =$	$5 - 1 =$	$3 - 1 =$	$4 + 1 =$
$\bullet\bullet\bullet =$	$0 =$	$\bullet\bullet\bullet + \bullet =$	$8\underset{0}{8} =$
$3 - 1 =$	$1 - 1 =$	$3 + 1 =$	$5 - 1 =$

$$\begin{array}{|c|c|c|c|c|} \hline 1+1 & 2+1 & 3+1 & 4+1 & 5-1 \\ \hline 1-1 & 2-1 & 3-1 & 4-1 & 4+1 \\ \hline \end{array}$$

- 2, - 3, - 4, - 5

$\bullet\bullet =$	$8\underset{0}{8} =$	$\bullet\bullet =$	$8\underset{0}{8} =$
$2 - 2 =$	$5 - 2 =$	$2 - 2 =$	$5 - 4 =$
$\bullet\bullet\bullet =$	$8\underset{0}{8} =$	$\bullet\bullet =$	$8\underset{0}{8} =$
$3 - 2 =$	$5 - 3 =$	$4 - 2 =$	$5 - 1 =$
$\bullet\bullet\bullet =$	$8\underset{0}{8} =$	$\bullet\bullet\bullet =$	$8\underset{0}{8} =$
$3 - 3 =$	$5 - 4 =$	$3 - 3 =$	$5 - 5 =$
$\bullet\bullet\bullet =$	$8\underset{0}{8} =$	$\bullet\bullet\bullet =$	$8\underset{0}{8} =$
$4 - 2 =$	$5 - 5 =$	$4 - 4 =$	$5 - 3 =$
$\bullet\bullet\bullet =$	$0 =$	$\bullet\bullet\bullet =$	$0 =$
$4 - 3 =$	$1 - 1 =$	$5 - 2 =$	$1 - 1 =$
$\bullet\bullet\bullet =$	$000 =$	$\bullet\bullet\bullet =$	$00 =$
$4 - 4 =$	$3 - 2 =$	$4 - 3 =$	$2 - 2 =$

$2 - 1 =$	$3 - 2 =$	$4 - 4 =$	$5 - 2 =$	$3 - 3 =$
$4 - 2 =$	$1 - 1 =$	$3 - 1 =$	$2 - 2 =$	$4 - 1 =$
$5 - 5 =$	$5 - 4 =$	$4 - 3 =$	$5 - 1 =$	$5 - 3 =$

1

$\bullet\bullet\bullet =$	$\circ\circ =$	$\bullet\bullet\bullet =$	$\circ\circ\circ =$
$3 - 1 =$	$2 - 2 =$		
$\bullet\bullet\bullet =$	$\circ\circ\circ =$	$\bullet\bullet\bullet =$	$\circ\circ\circ =$
$\bullet\bullet\bullet =$	$\circ\circ\circ =$	$\bullet\bullet\bullet =$	$\circ\circ\circ =$

2

$\circ\circ =$	$\circ\circ\circ =$		
$2 - 2 =$	$5 - 3 =$	$3 - 2 =$	$1 - 1 =$
$4 - 2 =$	$4 - 3 =$	$5 - 2 =$	$5 - 4 =$
$2 - 1 =$	$5 - 5 =$	$4 - 1 =$	$4 - 4 =$

3

$\bullet + \bullet\bullet =$	$\circ\circ + \circ =$	$\bullet\bullet\bullet + \bullet =$	$\bullet\bullet\bullet =$
$1 + 2 =$	$4 + ? = 5$	$3 + 1 =$	$3 - 1 =$
$\bullet\bullet\bullet =$	$\circ\circ =$	$\bullet\bullet\bullet =$	$\bullet + ? = 4$
$3 - 2 =$	$4 - 1 =$	$4 - 3 =$	$1 + ? = 4$
$2 + 2 =$	$3 + ? = 5$	$2 + ? = 4$	$2 - 1 =$
$2 - 2 =$	$5 - 2 =$	$4 - 2 =$	$1 + 1 =$
$2 + 3 =$	$5 - 5 =$	$1 + 4 =$	$2 + ? = 3$
$5 - 3 =$	$2 + ? = 5$	$5 - 4 =$	$3 - 3 =$

4

$4 + 1 =$	$3 - 2 =$	$1 + 3 =$	$5 - 1 =$	$2 + 3 =$
$5 - 2 =$	$1 + ? = 5$	$4 - 3 =$	$2 + 1 =$	$3 - 3 =$
$3 + ? = 4$	$2 - 2 =$	$2 + 2 =$	$1 - 1 =$	$1 + ? = 3$
$4 - 2 =$	$3 + 2 =$	$5 - 4 =$	$1 + ? = 2$	$3 - 1 =$
$1 + 2 =$	$5 - 5 =$	$2 + ? = 5$	$5 - 3 =$	$4 - 1 =$



6

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} = 6$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$\text{:} : = 6 \Delta \quad 6 \bullet \quad 5 \square \quad 4 \rho \quad 6 \flat \quad 3$$

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} + \bullet =$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$\bullet + \begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} = 6$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$5 + 1 =$$

$$6 - 1 =$$

$$1 + ? = 6$$

$$6 - ? = 5$$

$$\begin{array}{c} \bullet \\ \bullet \end{array} + \bullet =$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$\bullet + ? = 6$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$4 + 2 =$$

$$6 - 2 =$$

$$2 + ? = 6$$

$$6 - ? = 4$$

$$\begin{array}{c} \bullet \\ \bullet \end{array} + \begin{array}{c} \bullet \\ \bullet \end{array} =$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$\bullet + ? = 6$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$3 + 3 =$$

$$6 - 3 =$$

$$3 + ? = 6$$

$$6 - ? = 3$$

$$\bullet + \begin{array}{c} \bullet \\ \bullet \end{array} =$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$\bullet + ? = 6$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$2 + 4 =$$

$$6 - 4 =$$

$$4 + ? = 6$$

$$6 - ? = 2$$

$$\bullet + \begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} =$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$\bullet + ? = 6$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$1 + 5 =$$

$$6 - 5 =$$

$$5 + ? = 6$$

$$6 - ? = 0$$

$$\begin{array}{c} \circ \\ \circ \end{array} + \circ =$$

$$\bullet + \begin{array}{c} \bullet \\ \bullet \end{array} =$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} =$$

$$4 + 2 =$$

$$\circ + \circ =$$

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \\ \bullet \end{array} =$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} + \bullet =$$

$$\circ + \circ =$$

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} =$$

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} =$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} + \circ =$$

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} =$$

$$\begin{array}{c} \circ \\ \circ \end{array} =$$

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} =$$

$$\circ + \circ =$$

$$\bullet + \begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} =$$

$$\begin{array}{c} \circ \\ \circ \end{array} =$$

$$\begin{array}{c} \bullet \\ \bullet \\ \bullet \end{array} =$$

$$\bullet + \begin{array}{c} \bullet \\ \bullet \end{array} =$$

$$\circ + \begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

$$\bullet + \bullet =$$

$$\begin{array}{c} \circ \\ \circ \\ \circ \end{array} =$$

1

$$\textcircles{\circ\circ} + ? = 6$$

$$5 + ? = 6$$

$$\textcircles{\bullet\bullet} + ? = 6$$

$$\textbullet\bullet + ? = 6$$

$$\textbullet\bullet\bullet + ? = 5$$

$$\bullet + ? = 4$$

$$\textcircles{o\circ\circ} + ? = 6$$

$$\textbullet\bullet\bullet + ? = 4$$

$$\circ + ? = 2$$

$$\textcircles{\circ\circ\circ} - ? = 4$$

$$6 - ? = 4$$

$$\textcircles{\bullet\bullet\bullet} - ? = 1$$

$$\textcircles{\bullet\bullet} - ? = 2$$

$$\textcircles{\bullet\bullet\bullet} - ? = 0$$

$$\textcircles{\circ\circ\circ} - ? = 3$$

$$\textbullet\bullet\bullet + ? = 6$$

$$\textcircles{\bullet\bullet\bullet} - ? = 2$$

$$\textbullet\bullet + ? = 5$$

2

$$\bullet + \textcircles{\bullet\bullet} =$$

$$1 + 4 =$$

$$3 + 3 =$$

$$2 + 3 =$$

$$4 + 2 =$$

$$2 + 2 =$$

$$5 + 1 =$$

$$1 + 2 =$$

$$3 + 1 =$$

$$1 + 5 =$$

$$1 + 3 =$$

$$3 - 1 =$$

$$6 - 1 =$$

$$6 - 3 =$$

$$5 - 5 =$$

$$6 - 4 =$$

$$6 - 6 =$$

$$5 - 4 =$$

$$6 - 5 =$$

$$5 - 2 =$$

$$4 - 4 =$$

$$3 - 2 =$$

$$3 + 2 =$$

$$5 - 3 =$$

$$2 + 4 =$$

$$6 - 4 =$$

$$1 + 3 =$$

$$4 - 3 =$$

$$2 - 2 =$$

3

$$\textbullet\bullet\bullet + ? = 6$$

$$3 + ? = 6$$

$$\textbullet\bullet\bullet\bullet$$

$$4 - ? = 1$$

$$2 + ? = 5$$

$$3 - ? = 0$$

$$6 - ? = 5$$

$$1 + ? = 5$$

$$2 + ? = 6$$

$$6 - ? = 0$$

$$2 + ? = 3$$

$$6 - ? = 3$$

$$5 - ? = 1$$

$$1 + ? = 6$$

4

$$2+2+2 =$$

$$1+1+1 =$$

$$3+1+1 =$$

$$3+2+1 =$$

$$4+1+1 =$$

$$6-2-1 =$$

$$6-1-1 =$$

$$6-3-3 =$$

$$6-2-3 =$$

$$6-4-1 =$$

$$2+4-1 =$$

$$1+3-2 =$$

$$3+3-1 =$$

$$2+2-1 =$$

$$1+5-4 =$$

$$4+2-3 =$$

$$5-4+3 =$$

$$4+2-6 =$$

$$6-5+2 =$$

$$3-2+4 =$$



γ

$$\square \square \square \square = \gamma$$

$$\circ \circ \circ \circ =$$

Q::: = γ	Δ	6	•	γ	①	5	鑫	γ
$\bullet \bullet \bullet + \bullet =$	$\circ \circ \circ \circ =$	$\gamma = \bullet + ?$	$\circ \circ \circ \circ - ? = 0$					
$6 + 1 =$	$\gamma - 1 =$	$\gamma = 1 + ?$	$\gamma - ? = 0$					
$\bullet \bullet \bullet + \bullet =$	$\circ \circ \circ \circ =$	$\gamma = \bullet + ?$	$\circ \circ \circ \circ - ? = 1$					
$5 + 2 =$	$\gamma - 2 =$	$\gamma = 2 + ?$	$\gamma - ? = 1$					
$\bullet \bullet + \bullet \bullet =$	$\circ \circ \circ \circ =$	$\gamma = \bullet \bullet + ?$	$\circ \circ \circ \circ - ? = 2$					
$4 + 3 =$	$\gamma - 3 =$	$\gamma = 3 + ?$	$\gamma - ? = 2$					
$\bullet \bullet + \bullet \bullet =$	$\circ \circ \circ \circ =$	$\gamma = \bullet \bullet + ?$	$\circ \circ \circ \circ - ? = 3$					
$3 + 4 =$	$\gamma - 4 =$	$\gamma = 4 + ?$	$\gamma - ? = 3$					
$\bullet + \bullet \bullet \bullet =$	$\circ \circ \circ \circ =$	$\gamma = \bullet \bullet \bullet + ?$	$\circ \circ \circ \circ - ? = 4$					
$2 + 5 =$	$\gamma - 5 =$	$\gamma = 5 + ?$	$\gamma - ? = 4$					
$\bullet + \bullet \bullet \bullet =$	$\circ \circ \circ \circ =$	$\gamma = \bullet \bullet \bullet + ?$	$\circ \circ \circ \circ - ? = 5$					
$1 + 6 =$	$\gamma - 6 =$	$\gamma = 6 + ?$	$\gamma - ? = 5$					

$\circ \circ \circ + \circ =$	$\bullet \bullet \bullet \bullet \bullet =$	$\circ \circ \circ + \circ =$	$\bullet + ? = \gamma$
$6 + 1 =$	$\gamma - 4 =$		
$\bullet \bullet + \bullet \bullet =$	$\circ \circ \circ \circ =$	$\bullet \bullet \bullet =$	$\circ \circ \circ \circ - ? = 6$
$\circ + \circ \circ =$	$\bullet \bullet \bullet =$	$\circ \circ + \circ \circ =$	$\bullet \bullet + ? = \gamma$
$\bullet \bullet \bullet + \bullet =$	$\bullet \bullet \bullet \bullet \bullet =$	$\bullet \bullet \bullet \bullet \bullet =$	$\circ \circ \circ \circ - ? = 3$
$\circ \circ + \circ =$	$\circ \circ \circ \circ =$	$\circ + \circ \circ \circ =$	$\bullet + ? = 6$
$\bullet \bullet + \bullet =$	$\circ \circ \circ \circ =$	$\bullet \bullet \bullet \bullet =$	$\circ \circ \circ \circ - ? = 4$
$\circ + \circ \circ \circ =$	$\bullet \bullet \bullet =$	$\circ \circ \circ \circ =$	$\bullet \bullet \bullet - ? = 1$

1

$\bullet\bullet\bullet + \bullet =$	$\circ\circ\circ - \bullet =$	\quad	\quad
$6 + 1 =$	$7 - 1 =$	$1 + 6 =$	$7 - 4 =$
$5 + 1 =$	$7 - 3 =$	$4 - 4 =$	$5 + 2 =$
$5 + 2 =$	$6 - 5 =$	$1 + 4 =$	$7 - 6 =$
$4 + 2 =$	$7 - 5 =$	$3 - 2 =$	$3 + 2 =$
$4 + 3 =$	$5 - 5 =$	$2 + 3 =$	$3 - 3 =$
$3 + 3 =$	$7 - 7 =$	$6 - 4 =$	$2 + 2 =$
$3 + 4 =$	$5 - 4 =$	$2 + 4 =$	$6 - 1 =$
$2 + 5 =$	$7 - 2 =$	$5 - 3 =$	$1 + 3 =$
$1 + 5 =$	$4 - 3 =$	$5 - 2 =$	$4 - 2 =$

2

$1 + ? = 7$	$6 - ? = 2$	$5 = 3 + ?$	$1 = 3 - ?$
$1 + ? = 5$	$7 - ? = 4$	$7 = 4 + ?$	$5 = 7 - ?$
$3 + ? = 7$	$7 - ? = 2$	$6 = 4 + ?$	$0 = 4 - ?$
$2 + ? = 7$	$4 - ? = 3$	$7 = 5 + ?$	$1 = 7 - ?$

3

$2+2+3 =$	$7-2-2 =$	$2+5-3 =$	$7-5+4 =$
$1+1+3 =$	$6-3-2 =$	$2+3-4 =$	$6-5+3 =$
$4+1+1 =$	$7-4-3 =$	$3+3-5 =$	$6-3+4 =$
$3+1+1 =$	$5-2-3 =$	$5+1-4 =$	$3-3+7 =$
$3+3+1 =$	$7-3-3 =$	$1+6-5 =$	$4-4+1 =$
$2+3+1 =$	$7-1-3 =$	$4+3-7 =$	$7-7+2 =$



8

$$\bullet \bullet \bullet = 8$$

$$\circ \circ \circ =$$

$\circ \cdot \cdot \cdot = 8$	\square	$7 \ 6 \ 8$	$\bullet \ 6 \ \Delta$	$8 \ 0 \ 5$
$\bullet \bullet \bullet + \bullet =$	$\circ \circ \circ \circ \circ \circ =$	$\bullet \bullet \bullet \bullet \bullet \bullet =$	$\circ \circ \circ \circ + \circ =$	
$7 + 1 =$	$8 - 1 =$	$8 - 5 =$	$7 + ? = 8$	
$1 + 7 =$	$\circ \circ \circ \circ \circ \circ =$	$\bullet \bullet \bullet \bullet \bullet \bullet =$	$1 + ? = 8$	
$\bullet \bullet \bullet + \bullet =$	$8 - 2 =$	$8 - 6 =$	$\circ \circ \circ + \circ =$	
$6 + 2 =$	$\circ \circ \circ \circ \circ \circ =$	$\bullet \bullet \bullet \bullet \bullet \bullet =$	$6 + ? = 8$	
$2 + 6 =$	$8 - 3 =$	$8 - 7 =$	$2 + ? = 8$	
$\bullet \bullet \bullet + \bullet \bullet =$	$\circ \circ \circ \circ \circ \circ =$	$\bullet \bullet \bullet \bullet \bullet \bullet =$	$\circ \circ \circ + \circ \circ =$	
$5 + 3 =$	$8 - 4 =$	$8 - 8 =$	$5 + ? = 8$	
$3 + 5 =$	$\circ \circ \circ \circ \circ =$	$\bullet \bullet \bullet \bullet \bullet =$	$3 + ? = 8$	
$\bullet \bullet \bullet + \bullet \bullet =$	$8 - ? = 7$	$8 - ? = 5$	$\circ \circ + \circ \circ =$	
$4 + 4 =$	$8 - ? = 6$	$8 - ? = 4$	$4 + ? = 8$	

$\bullet \bullet \bullet \bullet$	$\circ \circ \circ \circ \circ$	$\bullet \bullet \bullet \bullet$	$\circ \circ \circ \circ \circ$
$8 - ? = 7$	$8 - ? = 5$	$8 - ? = 3$	$8 - ? = 1$
$\bullet \bullet \bullet \bullet$	$\circ \circ \circ \circ \circ$	$\bullet \bullet \bullet \bullet$	$\circ \circ \circ \circ \circ$
$8 - ? = 6$	$8 - ? = 4$	$8 - ? = 2$	$8 - ? = 0$

$\bullet \bullet + \bullet \bullet =$	$\circ \circ \circ \circ \circ =$	$\bullet + \bullet \bullet \bullet =$	$\circ \circ \circ =$
$\circ \circ + \circ =$	$\bullet \bullet \bullet \bullet =$	$\circ \circ \circ \circ \circ =$	$\bullet \bullet \bullet + \bullet \bullet =$
$\bullet \bullet + \bullet \bullet =$	$\circ \circ \circ \circ \circ =$	$\bullet \bullet \bullet + \bullet =$	$\circ \circ \circ \circ \circ =$
$\circ + \circ \circ \circ \circ =$	$\bullet \bullet \bullet \bullet \bullet =$	$\circ \circ \circ \circ \circ =$	$\bullet \bullet \bullet \bullet + \bullet =$
$\bullet \bullet + \bullet \bullet \bullet =$	$\circ \circ \circ \circ \circ =$	$\bullet + \bullet \bullet \bullet =$	$\circ \circ \circ \circ \circ =$

1

$$\bullet + ? = 8$$

$$8888 - ? = 4$$

$$5 = \bullet + ?$$

$$6 = 8888 - ?$$

$$\bullet\bullet\bullet + ? = 8$$

$$8888 - ? = 4$$

$$7 = 88 + ?$$

$$6 = 8888 - ?$$

$$\bullet\bullet + ? = 6$$

$$888 - ? = 1$$

$$8 = \bullet + ?$$

$$2 = 888 - ?$$

$$\bullet\bullet + ? = 8$$

$$888 - ? = 1$$

$$6 = 88 + ?$$

$$0 = 8888 - ?$$

2

$$\bullet + \bullet\bullet\bullet =$$

$$1 + 6 =$$

$$1 + 7 =$$

$$2 + 5 =$$

$$2 + 6 =$$

$$3 + 4 =$$

$$3 + 5 =$$

$$3 + 3 =$$

$$4 + 4 =$$

$$4 + 3 =$$

$$\bullet\bullet\bullet\bullet =$$

$$8 - 1 =$$

$$6 - 1 =$$

$$7 - 2 =$$

$$8 - 2 =$$

$$2 - 2 =$$

$$8 - 3 =$$

$$8 - 4 =$$

$$6 - 4 =$$

$$4 - 4 =$$

$$6 + 1 =$$

$$8 - 5 =$$

$$6 + 2 =$$

$$5 - 5 =$$

$$2 + 4 =$$

$$5 + 2 =$$

$$7 - 4 =$$

$$5 + 3 =$$

$$8 - 8 =$$

$$6 - 6 =$$

$$6 - 5 =$$

$$2 + 3 =$$

$$5 - 3 =$$

3

$$1 + ? = 8$$

$$2 = 7 - ?$$

$$8 = 5 + ?$$

$$6 + ? = 8$$

$$4 + ? = 8$$

$$3 = 8 - ?$$

$$6 = 5 + ?$$

$$8 - ? = 6$$

$$3 + ? = 8$$

$$7 = 8 - ?$$

$$0 = 4 - ?$$

$$2 + ? = 5$$

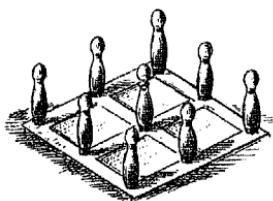
$$1 + ? = 6$$

$$1 = 7 - ?$$

$$3 = 6 - ?$$

$$5 - ? = 2$$

$3+4+1 =$	$8 - 1 - 2 =$	$7 + 1 - 3 =$	$2+3+3-1 =$
$2+3+2 =$	$7 - 2 - 2 =$	$6 - 5 + 7 =$	$8-2-3+4 =$
$3+3+2 =$	$8 - 3 - 3 =$	$6 + 1 - 4 =$	$6+1-4+2 =$
$4+1+2 =$	$8 - 4 - 4 =$	$8 - 6 + 3 =$	$1+7-5-2 =$
$2+4+2 =$	$8 - 5 - 2 =$	$5 + 3 - 7 =$	$3+4+1-6 =$



9

$$\begin{array}{c} \bullet \bullet \bullet \\ \bullet \bullet \bullet \\ \bullet \bullet \bullet \end{array} = 9$$

$$\begin{array}{c} \circ \circ \circ \\ \circ \circ \circ \\ \circ \circ \circ \end{array} =$$

$\circ \circ \circ = 9$	\square	8	Q	9	\bullet	6	H	9	\bullet	γ
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$\bullet \bullet \bullet + \bullet =$	$\circ \circ \circ \circ \circ \circ =$	$\bullet \bullet \bullet \bullet \bullet =$	$\bullet \bullet + \bullet \bullet \bullet =$
$8 + 1 =$	$9 - 1 =$	$9 - 7 =$	$3 + ? = 9$
$1 + 8 =$	$9 - 2 =$	$9 - 8 =$	$6 + ? = 9$
$\bullet \bullet \bullet + \bullet =$	$9 - 3 =$	$9 - 9 =$	$\bullet \bullet + \bullet \bullet \bullet =$
$7 + 2 =$	$9 - 4 =$	$1 + ? = 9$	$4 + ? = 9$
$2 + 7 =$	$9 - 5 =$	$8 + ? = 9$	$5 + ? = 9$
$\bullet \bullet \bullet + \bullet \bullet =$	$9 - 6 =$	$2 + ? = 9$	$9 - ? = 6$
$6 + 3 =$		$7 + ? = 9$	$9 - ? = 5$
$3 + 6 =$			$9 - ? = 4$
$\bullet \bullet \bullet + \bullet \bullet =$			
$5 + 4 =$			
$4 + 5 =$			

$\circ \circ \circ + \circ \circ =$	$\bullet + \bullet \bullet \bullet \bullet =$	$\circ \circ + \circ \circ \circ =$	$\bullet \bullet + \bullet \bullet \bullet =$
$\bullet + \bullet \bullet \bullet =$	$\circ + \circ \circ \circ =$	$\bullet + \bullet \bullet \bullet =$	$\circ \circ \circ + \circ =$
$\circ \circ \circ + \circ \circ =$	$\bullet \bullet \bullet + \bullet \bullet =$	$\circ \circ + \circ \circ \circ =$	$\bullet \bullet \bullet + \bullet \bullet =$

1

			$8 + ? = 8$
$8 - 2 =$			
			$8 - ? = 5$
			$8 + ? = 9$
			$8 - ? = 0$

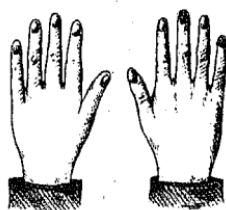
2

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

3

$7 + ? = 9$	$9 - ? = 8$	$4 + ? = 9$	$7 - ? = 4$
$8 + ? = 9$	$8 - ? = 2$	$9 - ? = 5$	$1 + ? = 9$
$7 + ? = 8$	$8 - ? = 5$	$5 + ? = 7$	$5 + ? = 9$
$6 + ? = 9$	$9 - ? = 6$	$9 - ? = 7$	$6 - ? = 0$

$3 + 3 + 3 =$	$9 - 3 - 3 =$	$8 + 1 - 4 =$	$3 + 4 + 2 = 9$
$3 + 2 + 2 =$	$8 - 3 - 3 =$	$6 + 2 - 5 =$	$2 + 6 + ? = 9$
$4 + 3 + 2 =$	$9 - 4 - 4 =$	$5 + 4 - ? =$	$4 + 1 + ? = 9$
$5 + 2 + 1 =$	$8 - 4 - 4 =$	$9 - 3 + 2 =$	$1 + 3 + ? = 7$
$2 + 3 + 4 =$	$? - 3 - 1 =$	$8 - 5 + 1 =$	$9 - 2 - ? = 5$
$1 + 3 + 2 =$	$9 - 5 - 2 =$	$4 + 4 - 8 =$	$9 - 3 - ? = 0$
$4 + 4 + 1 =$	$6 - 2 - 4 =$	$8 - 4 + 3 =$	$9 - ? - ? = 0$



10



$\circ \square \square = 10$	$\bullet \quad 9$	Δ	γ	Tree	6	$\bullet \quad 5$
------------------------------	-------------------	----------	----------	---------------	-----	-------------------

$\circ \circ \circ \circ \circ \circ + \circ =$	$\bullet \bullet \bullet \bullet \bullet =$	$\circ \circ \circ \circ \circ \circ =$	$\bullet \bullet \bullet \bullet + \bullet \bullet =$
$9 + 1 =$	$10 - 1 =$	$10 - 8 =$	$\gamma + ? = 10$
$1 + 9 =$	$\bullet \bullet \bullet \bullet \bullet =$	$\circ \circ \circ \circ \circ \circ =$	$3 + ? = 10$
$\circ \circ \circ \circ \circ \circ + \circ =$	$10 - 2 =$	$10 - 9 =$	$\bullet \bullet \bullet \bullet + \bullet \bullet =$
$8 + 2 =$	$\bullet \bullet \bullet \bullet \bullet =$	$\circ \circ \circ \circ \circ \circ =$	$6 + ? = 10$
$2 + 8 =$	$10 - 3 =$	$10 - 10 =$	$4 + ? = 10$
$\circ \circ \circ \circ \circ \circ + \circ =$	$\bullet \bullet \bullet \bullet \bullet =$	$\circ \circ \circ \circ \circ \circ + \circ =$	$\bullet \bullet \bullet \bullet =$
$\gamma + 3 =$	$10 - 4 =$	$9 + ? = 10$	$10 - ? = 8$
$3 + \gamma =$	$\bullet \bullet \bullet \bullet \bullet =$	$1 + ? = 10$	$10 - ? = 6$
$\circ \circ \circ \circ \circ \circ + \circ =$	$10 - 5 =$	$\circ \circ \circ \circ \circ \circ + \circ =$	$10 - ? = 5$
$6 + 4 =$	$\bullet \bullet \bullet \bullet \bullet =$	$8 + ? = 10$	$10 - ? = 3$
$4 + 6 =$	$10 - 6 =$	$2 + ? = 10$	$10 - ? = 1$
$\circ \circ \circ \circ \circ \circ + \circ =$	$\bullet \bullet \bullet \bullet \bullet =$	$\circ \circ \circ + \circ \circ \circ =$	$10 - ? = \gamma$
$5 + 5 =$	$10 - \gamma =$	$5 + ? = 10$	$10 - ? = 2$

		$\bullet + ? = 10$	
$9 + 1 =$	$10 - 2 =$	$1 + ? = 10$	$10 - ? = 9$
		$10 = 8 + ?$	$4 = \bullet \bullet \bullet \bullet - ?$
		$8 + ? = 9$	
		$10 = 8 + ?$	$0 = \bullet \bullet \bullet \bullet - ?$
		$8 + ? = 9$	
		$7 = 8 + ?$	$1 = \bullet \bullet \bullet - ?$
		$8 + ? = 10$	
		$10 = 8 + ?$	$2 = \bullet \bullet \bullet \bullet - ?$

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

1

$3 + ? = 10$	$? = 1 + ?$	$10 - ? = 6$	$9 = 10 - ?$
$5 + ? = 10$	$10 = 1 + ?$	$10 - ? = 5$	$4 = 8 - ?$
$9 + ? = 10$	$9 = 2 + ?$	$9 - ? = 4$	$0 = ? - ?$
$2 + ? = 10$	$8 = 2 + ?$	$10 - ? = 0$	$3 = 10 - ?$
$6 + ? = 10$	$6 = 3 + ?$	$10 - ? = 8$	$5 = 8 - ?$
$8 + ? = 10$	$9 = 3 + ?$	$10 - ? = 2$	$3 = 8 - ?$
$4 + ? = 10$	$10 = ? + ?$	$8 - ? = 2$	$1 = 10 - ?$

2

$1 + 1 =$	$5 + 4 =$	$5 + 2 =$	$5 + 5 =$	$2+2+2=$
$2 + 3 =$	$? + 1 =$	$1 + 5 =$	$3 + 5 =$	$3+3+4=$
$9 + 1 =$	$1 + 9 =$	$8 + 2 =$	$1 + 8 =$	$1+2+3=$
$3 + 1 =$	$2 + 5 =$	$4 + 4 =$	$4 + 3 =$	$2+4+3=$
$8 + 1 =$	$3 + 6 =$	$2 + ? =$	$2 + 8 =$	$5+1+2=$
$4 + 6 =$	$? + 3 =$	$4 + 5 =$	$? + 2 =$	$3+1+6=$

3

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

1

1 + ? = 4	2 + ? = 5	3 + ? = 6	4 + ? = 7
1 + ? = 7	2 + ? = 10	3 + ? = 9	4 + ? = 9
1 + ? = 10	2 + ? = 6	3 + ? = 8	5 + ? = 7
1 + ? = 5	2 + ? = 9	3 + ? = 10	5 + ? = 9
1 + ? = 8	2 + ? = 7	4 + ? = 8	6 + ? = 10
1 + ? = 4	3 + ? = 7	4 + ? = 10	7 + ? = 9

2

10 - ? = 3	9 - ? = 5	8 - ? = 6	6 - ? = 0
10 - ? = 5	9 - ? = 2	8 - ? = 4	6 - ? = 4
10 - ? = 7	9 - ? = 4	7 - ? = 2	5 - ? = 2
10 - ? = 1	9 - ? = 7	7 - ? = 5	5 - ? = 4
10 - ? = 4	8 - ? = 5	7 - ? = 0	4 - ? = 1
10 - ? = 8	8 - ? = 1	6 - ? = 3	3 - ? = 0

3

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

4

3 + 3 + ? = 10	10 - 5 - ? = 1	3 + 3 =	10 - 2 - 2 - 2 =
4 + 4 + ? = 10	10 - 4 - ? = 2	3 + 3 + 3 =	10 - 3 - 3 - 3 =
2 + 2 + ? = 10	10 - 7 - ? = 0	2 + 2 =	10 - 4 - 4 - ? = 0
1 + 1 + ? = 10	10 - 6 - ? = 1	2 + 2 + 2 =	10 - 5 - 5 =
1 + 2 + ? = 10	10 - 3 - ? = 2	2 + 2 + 2 + 2 =	10 - 6 - ? = 0
2 + 3 + ? = 10	10 - 9 - ? = 0	2 + 2 + 2 + 2 + 2 =	10 - 7 - ? = 0
3 + 4 + ? = 10	10 - 2 - ? = 5	1 + 1 + 1 + 1 + 1 =	10 - 8 - ? = 0

$\times 1$

$\bullet = 1$	$\circ \circ =$	$\bullet \bullet \bullet =$	$\circ \circ \circ =$
$1 \times 1 = 1$	$4 \times 1 =$	$\bullet \bullet \bullet =$	$\circ \circ \circ =$
$2 \times 1 = 1$	$2 \times 1 = 4$	$\bullet \bullet \bullet =$	$\circ \circ \circ =$
$1 = 1 \times ?$	$4 = 4 \times ?$	$7 \times 1 =$	$9 \times 1 =$
$\bullet \bullet =$	$\circ \circ \circ =$	$2 \times 1 = 7$	$2 \times 1 = 9$
$2 \times 1 =$	$5 \times 1 =$	$\bullet \bullet \bullet =$	$\circ \circ \circ =$
$2 \times 1 = 2$	$2 \times 1 = 5$	$\bullet \bullet \bullet =$	$\circ \circ \circ =$
$2 = 2 \times ?$	$5 = 5 \times ?$	$8 \times 1 =$	$10 \times 1 =$
$\bullet \bullet \bullet =$	$\circ \circ \circ =$	$2 \times 1 = 8$	$2 \times 1 = 10$
$3 \times 1 =$	$6 \times 1 =$	$8 = 8 \times ?$	$10 = 10 \times ?$
$2 \times 1 = 3$	$2 \times 1 = 6$		
$3 = 3 \times ?$	$6 = 6 \times ?$		

$$\begin{array}{|c|c|c|c|c|} \hline 1 \times 1 & 3 \times 1 & 5 \times 1 & 7 \times 1 & 9 \times 1 \\ \hline 2 \times 1 & 4 \times 1 & 6 \times 1 & 8 \times 1 & 10 \times 1 \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|} \hline 4 \times 1 & 2 \times 1 & 2 \times 1 = 6 & 2 \times 1 = 3 \\ \hline 7 \times 1 & 5 \times 1 & 2 \times 1 = 4 & 2 \times 1 = 7 \\ \hline 1 \times 1 & 9 \times 1 & 2 \times 1 = 8 & 2 \times 1 = 10 \\ \hline 10 \times 1 & 3 \times 1 & 2 \times 1 = 5 & 2 \times 1 = 1 \\ \hline 6 \times 1 & 8 \times 1 & 2 \times 1 = 9 & 2 \times 1 = 2 \\ \hline \end{array}$$

1

$3 \times 1 + 2 =$	$6 \times 1 - 2 =$	$1 \times 1 + 2 =$	$4 \times 1 - 4 =$
$5 \times 1 + 4 =$	$10 \times 1 - 4 =$	$8 \times 1 + 2 =$	$1 \times 1 - 6 =$
$2 \times 1 + 6 =$	$9 \times 1 - 5 =$	$6 \times 1 + 2 =$	$2 \times 1 - 2 =$
$1 \times 1 + 3 =$	$8 \times 1 - 3 =$	$9 \times 1 + 1 =$	$5 \times 1 - 3 =$
$4 \times 1 + 3 =$	$1 \times 1 - 1 =$	$10 \times 1 + 0 =$	$3 \times 1 - 1 =$

2

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

 $\underline{\times 2}$

$00 =$	$\bullet \bullet \bullet =$	$00 \quad 00$	$1 \times 2 =$
$1 \times 2 =$	$3 \times 2 =$	$00 \quad =$	$2 \times 2 =$
$2 \times 2 = 2$	$2 \times 2 = 6$	$00 \quad 00$	$3 \times 2 =$
$2 = 1 \times 2$	$6 = 3 \times 2$		
$0 \quad 0 =$	$\bullet \bullet \quad \bullet \bullet =$	$5 \times 2 =$	$4 \times 2 =$
$2 \times 2 =$	$\bullet \bullet \quad \bullet \bullet$	$? \times 2 = 10$	$5 \times 2 =$
$2 \times 2 = 4$	$4 \times 2 =$	$10 = 5 \times 2$	
$4 = 2 \times 2$	$2 \times 2 = 8$		
	$8 = 4 \times ?$		

$5 \times 2 =$	$3 \times 2 =$	$6 \times 1 =$	$? \times 2 = 8$
$5 \times 1 =$	$3 \times 1 =$	$1 \times 2 =$	$? \times 1 = 8$
$4 \times 2 =$	$2 \times 2 =$	$1 \times 1 =$	$? \times 2 = 4$
$4 \times 1 =$	$2 \times 1 =$	$10 \times 1 =$	$? \times 1 = 4$
$1 \times 1 =$	$9 \times 1 =$	$8 \times 1 =$	$? \times 2 = 10$

$3 \times 2 + 4 =$	$2 \times 2 - 4 =$	$2 \times 2 + ? = 10$	$5 \times 2 - ? = 5$
$1 \times 2 + ? =$	$4 \times 2 - 3 =$	$4 \times 2 + ? = 10$	$4 \times 2 - ? = 5$
$4 \times 2 + 1 =$	$5 \times 2 - ? =$	$1 \times 2 + ? = 10$	$1 \times 2 - ? = 1$
$2 \times 2 + 3 =$	$3 \times 2 - 5 =$	$3 \times 2 + ? = 10$	$3 \times 2 - ? = 1$
$5 \times 2 + 0 =$	$1 \times 2 - 2 =$	$2 \times 2 + ? = 9$	$2 \times 2 - ? = 2$

$\times 3, \times 4$

$\bullet\bullet =$	$\circ\circ\circ =$	$\bullet\bullet\bullet =$
$1 \times 3 =$ $? \times 3 = 3$ $3 = 1 \times ?$	$3 \times 3 =$ $? \times 3 = 9$ $9 = 3 \times ?$	$1 \times 4 =$ $? \times 4 = 4$ $4 = 1 \times ?$
$\bullet\bullet\bullet =$ $2 \times 3 =$ $? \times 3 = 6$ $6 = 2 \times ?$		$\bullet\bullet\bullet\bullet =$ $2 \times 4 =$ $? \times 4 = 8$ $8 = 2 \times ?$

$1 \times 1 =$	$2 \times 2 =$	$3 \times 1 =$	$2 \times ? = 8$
$1 \times 2 =$	$2 \times 3 =$	$3 \times 2 =$	$2 \times ? = 4$
$1 \times 3 =$	$2 \times 4 =$	$3 \times 3 =$	$2 \times ? = 6$
$1 \times 4 =$	$4 \times 1 =$	$3 \times 2 = 3$	$2 \times ? = 2$
$2 \times 1 =$	$4 \times 2 =$	$3 \times 3 = 9$	$1 \times ? = 4$

$1 \times 4 =$	$? \times 1 =$	$? \times 2 = 10$	$? \times 1 = 4$
$2 \times 4 =$	$5 \times 1 =$	$? \times 1 = 10$	$? \times 2 = 4$
$1 \times 3 =$	$5 \times 2 =$	$? \times 3 = 6$	$? \times 1 = 4$
$2 \times 3 =$	$6 \times 1 =$	$? \times 2 = 6$	$? \times 4 = 8$
$3 \times 3 =$	$? \times 1 =$	$? \times 3 = 9$	$? \times 2 = 8$
$1 \times 2 =$	$3 \times 2 =$	$? \times 1 = 9$	$? \times 1 = 8$

$3 \times 3 + 1 =$	$1 \times 4 + 3 =$	$5 \times 2 - ? = 1$	$10 \times 1 - 2 = 5$
$3 \times 3 - 1 =$	$1 \times 4 - 3 =$	$2 \times 4 + ? = 9$	$2 \times 1 - ? = 0$
$4 \times 2 + 2 =$	$1 \times 3 + 3 =$	$3 \times 3 + ? = 10$	$8 \times 1 + ? = 9$
$4 \times 2 - 2 =$	$1 \times 3 - 3 =$	$6 \times 1 - ? = 2$	$9 \times 1 - ? = 6$
$2 \times 3 + 2 =$	$1 \times 3 + ? =$	$2 \times 3 + ? = 10$	$2 \times 4 - ? = 5$
$2 \times 3 - 2 =$	$1 \times 3 - 2 =$	$2 \times 3 - ? = 0$	$4 \times 2 + ? = 10$

$\bullet\bullet\bullet =$	$\circ\circ\circ \quad \circ\circ\circ =$	$\bullet\bullet\bullet =$	$\circ\circ\circ\circ\circ =$
$1 \times 5 =$	$2 \times 5 =$	$1 \times 6 =$	$1 \times 8 =$
$2 \times 5 = 5$	$? \times 5 = 10$	$? \times 6 = 6$	$? \times 8 = 8$
$5 = 1 \times ?$	$10 = 2 \times ?$	$6 = 1 \times ?$	$8 = 1 \times ?$

1

$1 \times 1 =$	$1 \times 10 =$	$? \times 9 = 9$	$? \times 1 = 1$
$1 \times 9 =$	$1 \times ? = 1$	$? \times 10 = 10$	$1 \times 2 = 10$

2

$1 \times 8 =$	$1 \times 2 =$	$2 \times 2 =$	$4 \times 2 =$
$1 \times 10 =$	$1 \times 1 =$	$2 \times 1 =$	$9 \times 1 =$
$1 \times ? =$	$2 \times 5 =$	$3 \times 2 =$	$5 \times 1 =$
$1 \times 4 =$	$2 \times 4 =$	$3 \times 3 =$	$5 \times 2 =$
$1 \times 9 =$	$2 \times 3 =$	$4 \times 1 =$	$10 \times 1 =$

3

$10 \times 1 =$	$5 \times 2 =$	$4 \times 2 =$	$6 \times 1 =$
$1 \times 10 =$	$2 \times 5 =$	$2 \times 4 =$	$1 \times 6 =$
$8 \times 1 =$	$3 \times 2 =$	$2 \times 1 =$	$1 \times 1 =$
$1 \times 8 =$	$2 \times 3 =$	$1 \times 2 =$	$4 \times 1 =$
$1 \times 5 =$	$3 \times 3 =$	$3 \times 1 =$	$9 \times 1 =$
$5 \times 1 =$	$2 \times 2 =$	$1 \times 3 =$	$1 \times 9 =$

1

$$\begin{array}{l} 1 \times 6 + 3 = \\ 2 \times 4 + 2 = \\ 1 \times 7 + 1 = \\ 1 \times 9 - 4 = \\ 1 \times 8 + 2 = \\ 1 \times 8 - 2 = \\ 1 \times 5 + 4 = \\ 2 \times 5 + 0 = \end{array}$$

$$\begin{array}{l} 2 \times 5 - 4 = \\ 1 \times 6 - 3 = \\ 1 \times 10 - 3 = \\ 1 \times 9 + 1 = \\ 3 \times 3 - 1 = \\ 3 \times 2 - 5 = \\ 2 \times 4 + 2 = \\ 2 \times 3 - 2 = \end{array}$$

$$\begin{array}{l} 4 \times 2 - 4 = \\ 3 \times 2 + 3 = \\ 5 \times 2 - 10 = \\ 10 \times 1 - 6 = \\ 1 \times 4 + 3 = \\ 2 \times 2 - 4 = \\ 9 \times 1 - 4 = \\ 7 \times 1 + 3 = \end{array}$$

2

$$\begin{array}{l} 1 \times 9 + ? = 10 \\ 1 \times 3 + ? = 10 \\ 4 \times 1 + ? = 10 \\ 1 \times 1 + ? = 10 \\ 1 \times 2 + ? = 10 \\ 5 \times 1 + ? = 10 \end{array}$$

$$\begin{array}{l} 2 \times 2 + ? = 8 \\ 3 \times 2 + ? = 7 \\ 4 \times 2 + ? = 10 \\ 7 \times 1 + ? = 10 \\ 2 \times 5 - ? = 7 \\ 3 \times 3 - ? = 2 \end{array}$$

$$\begin{array}{l} 2 \times 4 - ? = 3 \\ 6 \times 1 - ? = 0 \\ 1 \times 8 - ? = 1 \\ 3 \times 1 + ? = 10 \\ 1 \times 6 + ? = 9 \\ 2 \times 3 - ? = 2 \end{array}$$

3

$$\begin{array}{l} 1 + 1 = \\ 2 \times 1 = \\ 2 + 2 = \\ 2 \times 2 = \\ 3 + 3 = \\ 2 \times 3 = \end{array}$$

$$\begin{array}{l} 4 + 4 = \\ 2 \times 4 = \\ 5 + 5 = \\ 2 \times 5 = \\ 1 + 1 + 1 = \\ 3 \times 1 = \end{array}$$

$$\begin{array}{l} 2 + 2 + 2 = \\ 3 \times 2 = \\ 3 + 3 + 3 = \\ 3 \times 3 = \\ 1 + 1 + 1 + 1 = \\ 4 \times 1 = \end{array}$$

$$\begin{array}{l} 2+2+2+2 = \\ 4 \times 2 = \\ 1+1+1+1+1 = \\ 5 \times 1 = \\ 2+2+2+2+2 = \\ 5 \times 2 = \end{array}$$

4

$$\begin{array}{l} 3 + 2 = \\ 3 \times 2 = \\ 6 - 2 = \\ 5 + ? = 9 \end{array}$$

$$\begin{array}{l} 7 \times 1 = \\ 7 + 1 = \\ 9 - 3 = \\ 10 - 6 = \end{array}$$

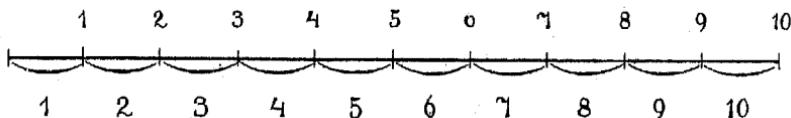
$$\begin{array}{l} 8 - ? = 3 \\ 1 \times 5 = \\ 1 + 5 = \\ 7 - 6 = \end{array}$$

$$\begin{array}{l} ? \times 2 = 10 \\ 6 - 4 = \\ 10 - 7 = \\ 3 + ? = 10 \end{array}$$

$2+5-6=$	$8 \times 1 - ? = 2$	$9-?+? = 10$	$? \times 1 + 2 =$
$8-?+? = 10$	$2+? - 9 =$	$8-4-4 =$	$4-3+6 =$
$5 \times 2 - ? =$	$10-6-1 =$	$1 \times 9 - 8 =$	$3 \times ? = 6$
$4+2+? = 10$	$2 \times 5 - 3 =$	$5+3+? = 10$	$9-8+3 =$
$10-4-? = 0$	$3+3-5 =$	$4-2-? = 0$	$10-5-5 =$

1 ve, 1 v

$1 \text{ t. ve } \bullet \bullet = 2$	$1 \text{ k. v } \circ \circ \circ =$	$1 \text{ t. v } \bullet \bullet \bullet \bullet =$
$1 \text{ ve } 2 = 2$	$1 \text{ v } 5 =$	$1 \text{ v } 8 =$
$1 \text{ t. ve } \bullet \bullet \bullet =$	$1 \text{ k. v } \circ \circ \circ =$	$1 \text{ t. v } \bullet \bullet \bullet \bullet =$
$1 \text{ ve } 3 =$	$1 \text{ v } 6 =$	$1 \text{ v } 9 =$
$1 \text{ t. v } \bullet =$	$1 \text{ k. v } \circ \circ \circ =$	$1 \text{ t. v } \bullet \bullet \bullet =$
$1 \text{ v } 1 =$	$1 \text{ v } 7 =$	$1 \text{ v } 10 =$
$1 \text{ t. ve } \bullet \bullet =$	$1 \text{ k. v } \circ \circ \circ =$	$1 \text{ t. v } \bullet \bullet \bullet \bullet =$
$1 \text{ ve } 4 =$	$1 \text{ v } 8 =$	



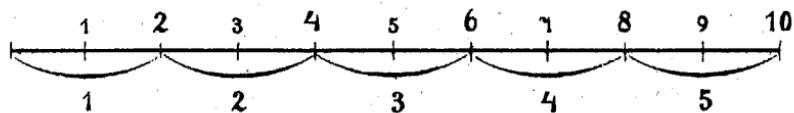
$1 \text{ v } 4 =$	$1 \text{ ve } 2 =$	$1 \text{ ve } ? = 3$	$1 \text{ v } ? = 5$
$1 \text{ v } 8 =$	$1 \text{ v } ? =$	$1 \text{ v } ? = 7$	$1 \text{ v } ? = 8$
$1 \text{ ve } 3 =$	$1 \text{ v } 1 =$	$1 \text{ v } ? = 10$	$1 \text{ v } ? = 2$
$1 \text{ v } 6 =$	$1 \text{ v } 5 =$	$1 \text{ ve } ? = 4$	$1 \text{ v } ? = 6$
$1 \text{ v } 9 =$	$1 \text{ v } 10 =$	$1 \text{ v } ? = 1$	$1 \text{ v } ? = 9$

$2 \times 1 =$	$6 \times 1 =$	$10 \times 1 =$	$4 \times 1 =$	$7 \times 1 =$
$1 \text{ ve } 2 =$	$1 \text{ v } 6 =$	$1 \text{ v } 10 =$	$1 \text{ ve } 4 =$	$1 \text{ v } 7 =$

$4 + 5 =$	$9 - ? = 4$	$5 \times ? = 5$	$1 \vee 3 =$
$10 - 6 =$	$2 + ? =$	$5 + 5 =$	$1 + 3 =$
$1 \vee 8 =$	$3 \times 3 =$	$1 \vee ? =$	$4 + 2 + 3 =$
$5 \times 2 =$	$1 \vee ? = 6$	$6 - 6 =$	$9 - 6 - 1 =$
$6 + ? = 9$	$3 + ? = 10$	$8 - 5 =$	$1 \vee 9 =$
$10 - ? = 3$	$1 \vee 4 =$	$1 + ? = 10$	$3 \times 2 + 2 = 10$
$1 \vee 9 =$	$1 - 6 =$	$1 \vee ? = 2$	$8 - 1 + 4 =$
$10 - 1 =$	$1 \times 5 =$	$1 \times 9 =$	$1 + 8 - 3 =$

2 ve

$2 \text{ kve} \boxed{\bullet} = 1$	$2 \text{ kve} \boxed{\circ \circ \circ \circ} =$	$2 \text{ kve} \boxed{\bullet \bullet \bullet} =$
$2 \text{ ve} 2 = 1$	$2 \text{ v } 8 =$	$2 \text{ v } 5 =$
$2 \text{ kve} \boxed{\bullet \bullet} =$	$2 \text{ kve} \boxed{\circ \circ \circ \circ \circ} =$	$2 \text{ kve} \boxed{\bullet \bullet \bullet \bullet} =$
$2 \text{ ve} 4 =$	$2 \text{ v } 10 =$	$2 \text{ v } 1 =$
$2 \text{ kve} \boxed{\bullet \bullet \bullet} =$	$2 \text{ kve} \boxed{\circ \circ} = 1(1)$	$2 \text{ kve} \boxed{\bullet \bullet \bullet \bullet \bullet} =$
$2 \text{ v } 6 =$	$2 \text{ ve} 3 =$	$2 \text{ v } 9 =$

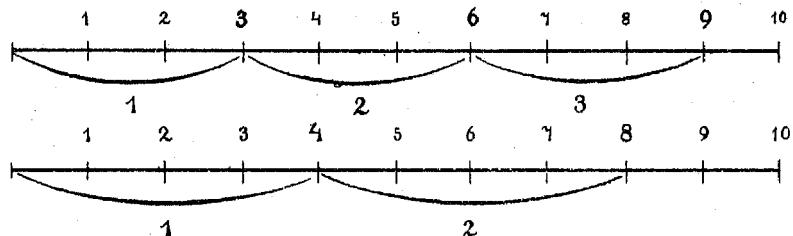


$2 \text{ ve} 2 =$	$2 \text{ v } 9 =$	$2 \text{ v } ? = 5$	$1 \text{ ve} 3 =$
$2 \text{ ve} 3 =$	$2 \text{ v } 10 =$	$1 \text{ v } ? = 5$	$2 \text{ ve} 3 =$
$2 \text{ ve} 4 =$	$2 \text{ v } ? = 4$	$1 \text{ v } ? = 6$	$1 \text{ v } 9 =$
$2 \text{ v } 5 =$	$1 \text{ v } ? = 4$	$2 \text{ v } ? = 2$	$2 \text{ v } 9 =$
$2 \text{ v } 6 =$	$2 \text{ v } ? = 3$	$1 \text{ v } ? = 2$	$2 \text{ v } 5 =$
$2 \text{ v } 7 =$	$1 \text{ v } ? = 3$	$2 \text{ v } ? = 1$	$1 \text{ v } ? =$
$2 \text{ v } 8 =$	$1 \text{ v } ? = 7$	$1 \text{ v } ? = 1$	$2 \text{ v } ? =$

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

3 ve, 4 ve

$3 \downarrow ve$ =	$4 kve$ =	$3 \downarrow v$ =	$3 kve$ =
$3 ve 3 =$	$4 ve 4 =$	$3 v 5 =$	$3 v 7 =$
$3 \downarrow v$ =	$4 kve$ =	$4 \downarrow v$ =	=
$3 v 6 =$	$4 v 8 =$	$4 v 5 =$	$4 v 9 =$
$3 \downarrow v$ =	$3 kve$ = 1(1)	$3 \downarrow v$ =	=
$3 v 9 =$	$3 ve 4 =$ 1(1)	$3 v 8 =$	$3 v 10 =$
	$4 kve$ = 1(2)		=
	$4 v 6 =$		$4 v 10 =$

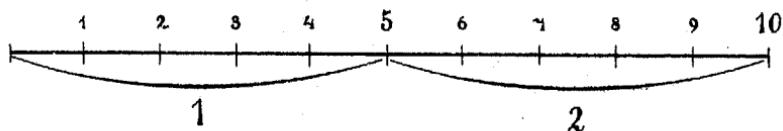


$3 v ? = 1$	$4 v 6 =$	$4 v 10 =$	$1 v 9 =$
$3 v ? = 3$	$3 ve 4 =$	$3 v 7 =$	$3 v 9 =$
$3 v ? = 2$	$4 v 9 =$	$4 v 9 =$	$2 v 9 =$
$4 v ? = 2$	$3 v 10 =$	$2 v 8 =$	$1 v 8 =$
$4 v ? = 1$	$3 v 5 =$	$1 v 10 =$	$4 v 8 =$
$4 v 5 =$	$3 v 8 =$	$2 v 10 =$	$2 v 6 =$

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

5, 6, 7, 8, 9, 10 \times ?

$5 \times$ [dot dot dot] =	$8 \times$ [circle circle circle circle] =	$6 \times$ [dot dot dot dot] =	$7 \times$ [circle circle circle circle] =
$5 \times 5 =$	$8 \times 8 =$	$6 \times 7 =$	$7 \times 10 =$
$5 \times$ [dot dot dot dot] =	$9 \times$ [circle circle circle] =	$6 \times$ [dot dot dot dot dot] =	$8 \times$ [circle circle circle circle circle] =
$5 \times 10 =$	$9 \times 9 =$	$6 \times 9 =$	$8 \times 9 =$
$6 \times$ [dot dot dot] =	$10 \times$ [circle circle circle circle] =	$6 \times$ [dot dot dot dot dot] =	$8 \times$ [circle circle circle circle circle] =
$6 \times 6 =$	$10 \times 10 =$	$6 \times 10 =$	$8 \times 10 =$
$7 \times$ [dot dot dot dot] =	$5 \times$ [circle circle circle] =	$7 \times$ [dot dot dot dot dot] =	$9 \times$ [circle circle circle circle circle] =
$7 \times 7 =$	$5 \times 5 =$	$7 \times 9 =$	$9 \times 10 =$



$5 \times ? = 1$	$6 \times ? = 1$	$8 \times ? = 1$	$10 \times ? = 1$
$5 \times ? = 2$	$7 \times ? = 1$	$9 \times ? = 1$	$5 \times 6 =$
$5 \times 7 =$	$5 \times 8 =$	$7 \times 8 =$	$6 \times 9 =$
$6 \times 7 =$	$6 \times 8 =$	$5 \times 9 =$	$7 \times 9 =$
$6 \times 10 =$	$7 \times 10 =$	$8 \times 10 =$	$8 \times 9 =$

1

1 ve 2 =	6 v 10 =	5 v 7 =	3 v 9 =	1 v 6 =
2 v 6 =	3 v 8 =	9 v 9 =	6 v 6 =	2 v 8 =
4 v 10 =	2 v 5 =	3 v 10 =	2 v 4 =	4 v 9 =
7 v 7 =	7 v 10 =	2 v 9 =	2 v 7 =	6 v 9 =
5 v 10 =	1 v 5 =	5 v 8 =	8 v 10 =	1 v 8 =
8 v 9 =	4 v 6 =	7 v 8 =	4 v 8 =	3 v 6 =
10 v 10 =	1 ve 3 =	1 v 10 =	2 v 10 =	5 v 5 =

2

2 - 1 - 1 =	7 - 2 - 2 - 2 =	6 - 4 =	5 - 5 =
1 ve 2 =	2 v 7 =	4 v 6 =	5 v 5 =
2 - 2 =	4 - 3 =	9 - 3 - 3 - 3 =	10 - 5 - 5 =
2 ve 2 =	3 ve 4 =	3 v 9 =	5 v 10 =
3 - 3 =	5 - 3 =	8 - 4 - 4 =	9 - 6 =
3 ve 3 =	3 v 5 =	4 v 8 =	6 v 9 =
4 - 2 - 2 =	6 - 3 - 3 =	10 - 4 - 4 =	7 - 5 =
2 ve 4 =	3 v 6 =	4 v 10 =	5 v 7 =

3

3 × 1 =	4 × 2 =	3 × 3 =	2 × 4 =
1 ve 3 =	2 v 8 =	3 v ? = 3	4 v ? = 2
5 × 1 =	2 × 2 =	2 × 3 =	1 × 5 =
1 v 5 =	2 ve 4 =	3 v ? = 2	5 v 5 =
8 × 1 =	5 × 2 =	1 × 3 + 2 =	2 × 5 =
1 v 8 =	2 v ? = 5	3 v 5 =	5 v 10 =
10 × 1 =	4 × 2 + 1 =	1 × 4 =	1 × 6 + 4
1 v 10 =	2 v 9 =	4 v ? = 1	6 v 10 =

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

 $\frac{1}{2} ze$

$\frac{\bullet}{2} = 1$	$\frac{\circ}{2} =$	$\frac{\bullet\bullet\bullet}{2} =$
$\frac{1}{2} z 2 = 1$	$\frac{1}{2} z 6 =$	$\frac{1}{2} z 10 =$
$\frac{1}{2} z ? = 1$	$\frac{1}{2} z ? = 3$	$\frac{1}{2} z ? = 5$
$\frac{\circ}{2} =$	$\frac{\circ\circ}{2} =$	$\frac{1}{2} z 6 =$
$\frac{\circ}{2} =$	$\frac{\circ\circ}{2} =$	$\frac{1}{2} z 2 =$
$\frac{1}{2} z 4 =$	$\frac{1}{2} z 8 =$	$\frac{1}{2} z 10 =$
$\frac{1}{2} z ? = 2$	$\frac{1}{2} z ? = 4$	$\frac{1}{2} z 8 =$
		$\frac{1}{2} z 4 =$

$\frac{1}{2} z ? = 4$	$\frac{1}{2} z 8 + 2 =$	$\frac{1}{2} z 10 - 2 =$
$\frac{1}{2} z ? = 2$	$\frac{1}{2} z 6 + 4 =$	$\frac{1}{2} z 8 - 3 =$
$\frac{1}{2} z ? = 5$	$\frac{1}{2} z e 2 + 3 =$	$\frac{1}{2} z e 6 - 1 =$
$\frac{1}{2} z ? = 3$	$\frac{1}{2} z 10 + 4 =$	$\frac{1}{2} z e 4 - 2 =$
$\frac{1}{2} z ? = 1$	$\frac{1}{2} z e 4 + 5 =$	

$\frac{1}{2} \times 10 =$	$6 - 3 =$	$1 + 2 + ? = 10$	$\frac{1}{2} \times 2 + ? = 10$
$2 \times 5 =$	$\frac{1}{2} \times 6 =$	$\frac{1}{2} \times 4 + 6 =$	$1 \times ? =$
$5 \times 10 =$	$2 \times 4 =$	$10 - 9 + 5 =$	$6 - 2 + ? = 8$
$4 + 4 =$	$9 - 1 =$	$3 \times 9 =$	$2 \times 8 =$
$\frac{1}{2} \times 8 =$	$4 \times 8 =$	$10 - 2 = 0$	$8 + 1 - 9 =$
$6 - 5 =$	$10 - 9 =$	$? \times 2 = 10$	$? \times 4 = 4$

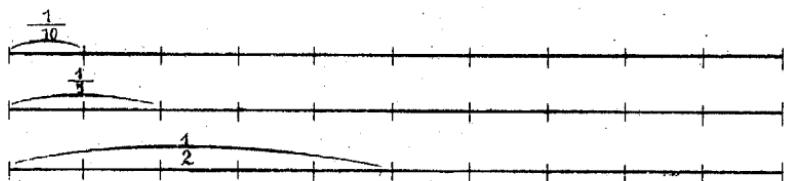
$\frac{1}{3} \times ?$, $\frac{1}{4} \times ?$

$\begin{array}{ c c c }\hline \bullet & \bullet & \bullet \\ \hline\end{array} =$	$\begin{array}{ c c c }\hline \circ & \circ & \circ \\ \hline\end{array} =$	$\begin{array}{ c c c }\hline \bullet\bullet\bullet & \bullet\bullet \\ \hline\end{array} =$
3	3	2
$\frac{1}{3} \times 3 =$	$\frac{1}{3} \times 9 =$	$\frac{1}{2} \times 8 =$
$\frac{1}{3} \times ? = 1$	$\frac{1}{3} \times ? = 3$	$\begin{array}{ c c c }\hline \bullet\bullet\bullet & \bullet\bullet \\ \hline\end{array} =$
$\begin{array}{ c c }\hline \bullet\bullet & \bullet\bullet \\ \hline\end{array} =$	$\begin{array}{ c c }\hline \circ\circ & \circ\circ \\ \hline\end{array} =$	4
2	2	$\frac{1}{4} \times 8 =$
$\frac{1}{2} \times 6 =$	$\frac{1}{2} \times 4 =$	$\frac{1}{4} \times ? = 2$
$\begin{array}{ c c c }\hline \bullet & \bullet & \bullet \\ \hline\end{array} =$	$\begin{array}{ c c c }\hline \circ & \circ & \circ \\ \hline\end{array} =$	$\frac{1}{4} \times 4 =$
3	4	$\frac{1}{3} \times 9 =$
$\frac{1}{3} \times 6 =$	$\frac{1}{4} \times 4 =$	$\frac{1}{3} \times 6 =$
$\frac{1}{3} \times ? = 2$	$\frac{1}{4} \times ? = 1$	$\frac{1}{4} \times 8 =$

$4 = \frac{1}{2} \times ?$	$5 = \frac{1}{2} \times ?$	$\frac{1}{4} \times 8 - 1 =$	$\frac{1}{2} \times 6 =$
$2 = \frac{1}{2} \times ?$	$3 = \frac{1}{2} \times ?$	$\frac{1}{4} \times 4 - 1 =$	$4 \times 8 =$
$1 = \frac{1}{2} \times ?$	$3 = \frac{1}{3} \times ?$	$\frac{1}{4} \times 4 + 2 =$	$3 \times 2 =$
$1 = \frac{1}{3} \times ?$	$\frac{1}{3} \times 9 + 1 =$	$\frac{1}{3} \times 3 - 1 =$	$\frac{1}{2} \times 10 =$
$1 = \frac{1}{4} \times ?$	$\frac{1}{3} \times 6 + 6 =$	$\frac{1}{3} \times 9 - 2 =$	$2 \times 5 =$
$2 = \frac{1}{3} \times ?$	$\frac{1}{3} \times 3 + 3 =$	$\frac{1}{3} \times 6 - 2 =$	$10 - ? = 3$
$2 = \frac{1}{4} \times ?$	$\frac{1}{3} \times 3 + 5 =$	$\frac{1}{2} \times 8 + 6 =$	$4 \times 2 =$

$$\frac{1}{5}, \quad \frac{1}{6}, \quad \frac{1}{7}, \quad \frac{1}{8}, \quad \frac{1}{9}, \quad \frac{1}{10}$$

= 5	= 7	= 10
$\frac{1}{5} z 5 =$	$\frac{1}{7} ze 7 =$	$\frac{1}{10} z 10 =$
$\frac{1}{5} z ? = 1$	$\frac{1}{7} z ? = 1$	$\frac{1}{10} z ? = 1$
= 5	= 8	= 5
$\frac{1}{5} z 10 =$	$\frac{1}{8} z 8 =$	$\frac{1}{5} z 10 =$
$\frac{1}{5} z ? = 2$	$\frac{1}{8} z ? = 1$	$\frac{1}{6} z 6 =$
= 6	= 9	= 8
$\frac{1}{6} ze 6 =$	$\frac{1}{9} z 9 =$	$\frac{1}{9} z 9 =$
$\frac{1}{6} z ? = 1$	$\frac{1}{9} z ? = 1$	$\frac{1}{8} ze 7 =$



$\frac{1}{2} ze 2 =$	$\frac{1}{4} ze 4 =$	$\frac{1}{3} ze 6 =$	$\frac{1}{2} z 8 =$	$\frac{1}{3} z 9 =$
$\frac{1}{3} ze 3 =$	$\frac{1}{5} z 5 =$	$\frac{1}{6} ze 6 =$	$\frac{1}{4} z 8 =$	$\frac{1}{9} z 9 =$
$\frac{1}{2} ze 4 =$	$\frac{1}{2} ze 6 =$	$\frac{1}{7} ze 7 =$	$\frac{1}{8} z 8 =$	$\frac{1}{10} z 10 =$

$2 \times 1 =$	$2 \times 4 =$	$3 \times 2 =$	$4 \times 2 =$
$\frac{1}{2} z ? = 1$	$\frac{1}{2} z ? = 4$	$\frac{1}{3} z ? = 2$	$\frac{1}{4} z ? = 2$
$2 \times 2 =$	$2 \times 5 =$	$3 \times 3 =$	$5 \times 1 =$
$\frac{1}{2} z ? = 2$	$\frac{1}{2} z ? = 5$	$\frac{1}{3} z ? = 3$	$\frac{1}{5} z ? = 1$
$2 \times 3 =$	$3 \times 1 =$	$4 \times 1 =$	$5 \times 2 =$
$\frac{1}{2} z ? = 3$	$\frac{1}{3} z ? = 1$	$\frac{1}{4} z ? = 1$	$\frac{1}{5} z ? = 2$

Oprakování.

1

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

2

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

3

$2+6=$	$6-6=$	$7-3=$	$4-1=$	$1+?=7$	$4-?=1$
$9-5=$	$4+5=$	$5+3=$	$7+2=$	$5-?=2$	$4+?=6$
$1+8=$	$8-3=$	$5-4=$	$10-4=$	$3+?=7$	$8-?=0$
$10-7=$	$6+4=$	$3+6=$	$8+2=$	$3-?=1$	$2+?=6$
$7-5=$	$9-7=$	$2-2=$	$9-3=$	$6-?=2$	$7-?=1$

4

$8 \times 1 =$	$5 \times 1 =$	$2 \times 2 =$	$1 \times 3 =$	$1 \times 5 =$	$? \times 2 = 10$
$4 \times 1 =$	$1 \times 1 =$	$3 \times 2 =$	$3 \times 3 =$	$2 \times 5 =$	$? \times 2 = 8$
$10 \times 1 =$	$3 \times 1 =$	$5 \times 2 =$	$2 \times 3 =$	$1 \times 6 =$	$? \times 3 = 9$
$7 \times 1 =$	$2 \times 1 =$	$1 \times 2 =$	$1 \times 4 =$	$1 \times 8 =$	$? \times 5 = 10$
$6 \times 1 =$	$9 \times 1 =$	$4 \times 2 =$	$2 \times 4 =$	$1 \times 10 =$	$? \times 4 = 8$

5

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

6

$1 v 8 =$	$1 v e 4 =$	$2 v e 2 =$	$5 v 5 =$	$2 v e 3 =$	$3 v 8 =$
$1 v 6 =$	$1 v 9 =$	$3 v 6 =$	$5 v 10 =$	$2 v 7 =$	$4 v 5 =$
$1 v e 3 =$	$1 v 1 =$	$3 v e 3 =$	$8 v 8 =$	$2 v 9 =$	$4 v 10 =$
$1 v 10 =$	$2 v 6 =$	$3 v 9 =$	$9 v 9 =$	$3 v e 4 =$	$4 v 6 =$
$1 v 7 =$	$2 v 8 =$	$4 v e 4 =$	$7 v 7 =$	$3 v 7 =$	$4 v 9 =$
$1 v 6 =$	$2 v e 4 =$	$4 v 8 =$	$10 v 10 =$	$3 v 10 =$	$6 v 7 =$
$1 v 5 =$	$2 v 10 =$	$6 v 6 =$	$2 v 5 =$	$3 v 5 =$	$6 v 10 =$

7

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

8

$\frac{1}{2} z 10 =$	$\frac{1}{2} z e 6 =$	$\frac{1}{3} z e 6 =$	$\frac{1}{4} z 8 =$	$\frac{1}{5} z 5 =$	$\frac{1}{9} z 9 =$
$\frac{1}{2} z 8 =$	$\frac{1}{2} z e 2 =$	$\frac{1}{3} z e 3 =$	$\frac{1}{4} z e 4 =$	$\frac{1}{5} z 10 =$	$\frac{1}{10} z 10 =$
$\frac{1}{2} z e 4 =$	$\frac{1}{6} z e 6 =$	$\frac{1}{3} z 9 =$	$\frac{1}{7} z e 7 =$	$\frac{1}{8} z 8 =$	

9

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

10a

$4+4-5=$	$6 \times 1+? = 7$	$4 v 10 =$	$1 v \cdot 2 =$
$\frac{1}{3} z \cdot 3+5=$	$10 v 10 =$	$2 \times 2+5 =$	$1 v \cdot ? = 8$
$8 \times 1-7 =$	$2 \times 4 = 8$	$5 v \cdot 6 =$	$5 v \cdot 9 =$
$\frac{1}{2} z \cdot 4-1 =$	$4+3+3 =$	$1 \times 5-? = 0$	$? \times 3 = 6$
$7 \times 1+? = 10$	$3 v \cdot 7 =$	$4 \times ? = 8$	$\frac{1}{9} z \cdot 9+4 =$
$6 v 8 =$	$2 \times 4-6 =$	$8 v \cdot 8 =$	$10 v 10 =$
$5 \times 1-2 =$	$2 v \cdot 9 =$	$9 v 10+$	$10 - ? = 0$
$6 = 2+8-?$	$5 \times 2-? = 3$	$1 \times 6+? = 10$	$\frac{1}{8} z \cdot 8+9 =$

10b

$1 \times 9 - ? = 0$	$7 - 3 - 2 - 1 =$	$7 v 10 =$	$4 = 10 - ?$
$5 v ? = 2$	$7 v ? = 1$	$4 v ? = 2$	$8 = 2 \times ?$
$10 = 2+2+?$	$4+6-5 =$	$\frac{1}{5} z \cdot 10+3 =$	$1 \times 7 - ? = 0$
$3 \times 3 - 2 =$	$3 \times 2 =$	$\frac{1}{3} z ? = 3$	$\frac{1}{3} z ? = 2$
$8 = 4 \times 2 + ?$	$2 \times 5 - 0 =$	$10 - 3 - 5 - 1 =$	$7 - 6 + ? = 10$
$2 \times 3 + ? = 7$	$2 v 8 =$	$3 v \cdot 8 =$	$\frac{1}{4} z ? = 2$
$\frac{1}{2} z \cdot 8+6 =$	$1 \times 3 - ? = 1$	$3 v ? = 2$	$6 v 10 =$
$4 v 7 =$	$2 \times 1+? = 9$	$\frac{1}{4} z \cdot 8+6 =$	$\frac{1}{10} z \cdot 10+5 =$

Date: _____