

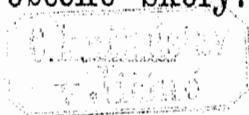
První *Y. X-487*

# početnice

pro

*II-U 31/a*

obecné školy.



Sepsal

Dr. Fr. Močnik.

Počítání s čísly do 20.



Vázaná za 6 krejcarů.

Ve Vídni.

V e. k. školním kněhoskladu.

1870.

Školní knihy, v c. k. školním kněhoskladu  
vydané, nesmějí se prodávati draž, než za tu cenu,  
která na titulním jich listu naznačena jest.

7

ÚSTŘEDNÍ KNĚHOVNA  
PEDAGOGICKÉ FAKULTY  
HRADEC KRÁLOVÉ

Signatura 0 829

Inventár. č. 20126

# Oddíl prvý.

Obor čísel od jedné do deseti.

• 1

• 2

• | •     $1 + 1 =$        $2 - 1 =$        $2 = 1 +$   
 $2 \times 1 =$        $1 \text{ ve } 2 =$        $\frac{1}{2} \text{ ze } 2 =$

• 3

• | • | •     $1 + 1 + 1 =$   
 $3 \times 1 =$        $1 \text{ ve } 3 =$        $\frac{1}{3} \text{ ze } 3 =$   
 • | •     $2 + 1 =$        $3 - 1 =$        $3 = 2 +$   
 $1 + 2 =$        $3 - 2 =$        $3 = 1 +$   
 $2 \text{ ve } 3 = 1 (1).$

$1 + 1 =$  |  $3 - 1 =$  |  $3 = 1 +$  |  $2 \times 1 =$  |  $1 \text{ ve } 3 =$   
 $1 + 2 =$  |  $2 - 1 =$  |  $3 = 2 +$  |  $3 \times 1 =$  |  $\frac{1}{3} \text{ ze } 3 =$   
 $2 + 1 =$  |  $3 - 2 =$  |  $2 = 1 +$  |  $1 \times 3 =$  |  $\frac{1}{2} \text{ ze } 2 =$

• 4

• | • | • | •     $1 + 1 + 1 + 1 =$   
 $4 \times 1 =$        $1 \text{ ve } 4 =$        $\frac{1}{4} \text{ ze } 4 =$   
 • | •     $2 + 2 =$        $4 - 2 =$        $4 = 2 +$   
 • | •     $2 \times 2 =$        $2 \text{ ve } 4 =$        $\frac{1}{2} \text{ ze } 4 =$   
 • | •     $3 + 1 =$        $4 - 1 =$        $4 = 3 +$   
 • | •     $1 + 3 =$        $4 - 3 =$        $4 = 1 +$   
 $1 \times 3 + 1 =$        $3 \text{ ve } 4 =$

$$\begin{array}{l}
 1 + 1 = \\
 2 + 1 = \\
 1 + 2 = \\
 2 + 2 =
 \end{array}
 \left|
 \begin{array}{l}
 3 + 1 = \\
 1 + 3 = \\
 4 - 1 = \\
 4 - 2 =
 \end{array}
 \right|
 \begin{array}{l}
 3 - 1 = \\
 2 - 1 = \\
 3 - 2 = \\
 4 - 3 =
 \end{array}
 \left|
 \begin{array}{l}
 1 - 1 = 0 \\
 2 - 2 = \\
 3 - 3 = \\
 4 - 4 =
 \end{array}
 \right|
 \begin{array}{l}
 4 = 2 + \\
 4 = 1 + \\
 3 = 2 + \\
 3 = 1 +
 \end{array}$$

$$\begin{array}{l}
 2 \times 1 = \\
 4 \times 1 = \\
 1 \times 4 = \\
 2 \times 2 =
 \end{array}
 \left|
 \begin{array}{l}
 2 \vee 4 = \\
 1 \vee 3 = \\
 1 \vee 4 = \\
 2 \vee 3 =
 \end{array}
 \right|
 \begin{array}{l}
 \frac{1}{2} z 2 = \\
 \frac{1}{2} z 4 = \\
 \frac{1}{3} z 3 = \\
 \frac{1}{3} z 4 =
 \end{array}
 \left|
 \begin{array}{l}
 1 + 2 + 1 = \\
 4 - 1 - 2 = \\
 3 + 1 - 4 = \\
 4 - 3 + 2 =
 \end{array}
 \right.$$

# 5

$$\begin{array}{l}
 \cdot | \cdot | \cdot | \cdot | \\
 \cdot | \cdot | \cdot
 \end{array}
 \begin{array}{l}
 1 + 1 + 1 + 1 + 1 = \\
 5 \times 1 = \quad 1 \vee 5 = \quad \frac{1}{5} z 5 =
 \end{array}$$

$$\begin{array}{l}
 \cdot | \cdot | \cdot \\
 \cdot | \cdot
 \end{array}
 \begin{array}{l}
 2 + 2 + 1 = \\
 2 \times 2 + 1 = \quad 2 \vee 5 =
 \end{array}$$

$$\begin{array}{l}
 \cdot | \cdot \\
 \cdot | \cdot
 \end{array}
 \begin{array}{l}
 3 + 2 = \quad 5 - 2 = \quad 5 = 3 + \\
 2 + 3 = \quad 5 - 3 = \quad 5 = 2 + \\
 1 \times 3 + 2 = \quad 3 \vee 5 =
 \end{array}$$

$$\begin{array}{l}
 \cdot \cdot | \cdot \\
 \cdot \cdot | \cdot
 \end{array}
 \begin{array}{l}
 4 + 1 = \quad 5 - 1 = \quad 5 = 4 + \\
 1 + 4 = \quad 5 - 4 = \quad 5 = 1 + \\
 1 \times 4 + 1 = \quad 4 \vee 5 =
 \end{array}$$

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

$$\begin{array}{l}
 3 \times 1 = \\
 2 \times 2 = \\
 1 \times 5 = \\
 5 \times 1 = \\
 1 \times 1 =
 \end{array}
 \left|
 \begin{array}{l}
 1 \vee 5 = \\
 2 \vee 4 = \\
 1 \vee 3 = \\
 2 \vee 5 = \\
 4 \vee 5 =
 \end{array}
 \right|
 \begin{array}{l}
 \frac{1}{2} z 2 = \\
 \frac{1}{2} z 4 = \\
 \frac{1}{3} z 4 = \\
 \frac{1}{3} z 3 = \\
 \frac{1}{5} z 5 =
 \end{array}
 \left|
 \begin{array}{l}
 2 + 1 + 2 = \\
 5 - 4 + 3 = \\
 5 - 1 - 2 = \\
 2 \times 2 - 3 = \\
 \frac{1}{5} z 5 + 4 =
 \end{array}
 \right.$$

# 6

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

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

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

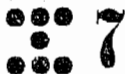
$$\cdot|\cdot \quad \begin{array}{l} 4 + 2 = \quad 6 - 2 = \quad 6 = 4 +. \\ 2 + 4 = \quad 6 - 4 = \quad 6 = 2 +. \\ 1 \times 4 + 2 = \quad 4 \vee 6 = \end{array}$$

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

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

$3 \times 2 =$	$2 \times. = 4$	$. \times 3 = 3$	$1 \vee 6 =$	$\frac{1}{3} \text{ ze } 3 =$
$2 \times 2 =$	$2 \times. = 6$	$. \times 1 = 2$	$2 \vee 4 =$	$\frac{1}{3} \text{ ze } 6 =$
$1 \times 4 =$	$5 \times. = 5$	$. \times 3 = 6$	$1 \vee 5 =$	$\frac{1}{3} \text{ ze } 6 =$
$6 \times 1 =$	$1 \times. = 3$	$. \times 2 = 6$	$2 \vee 6 =$	$\frac{1}{2} \text{ ze } 4 =$
$2 \times 3 =$	$3 \times. = 6$	$. \times 2 = 4$	$3 \vee 6 =$	$\frac{1}{6} \text{ ze } 6 =$

$2 + 1 + 3 =$	$1 + 5 - 3 =$	$3 \times 1 + 2 =$	$\frac{1}{2} \text{ ze } 2 + 4 =$
$1 + 2 + 2 =$	$2 + 3 - 4 =$	$2 \times 3 - 4 =$	$\frac{1}{3} \text{ ze } 3 + 5 =$
$3 + 2 + 1 =$	$5 - 1 + 2 =$	$1 \times 5 - 3 =$	$\frac{1}{3} \text{ ze } 6 + 3 =$
$6 - 3 - 1 =$	$6 - 5 + 4 =$	$2 \times 2 + 2 =$	$\frac{1}{3} \text{ ze } 6 - 2 =$
$6 - 2 - 4 =$	$6 - 2 + 2 =$	$6 \times 1 - 5 =$	$\frac{1}{2} \text{ ze } 6 - 1 =$



$$\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot \quad 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 = 7 \times 1 = 1 \vee 7 = \frac{1}{7} \text{ ze } 7 =$$

$$\cdot|\cdot|\cdot|\cdot|\cdot \quad 2 + 2 + 2 + 1 = 3 \times 2 + 1 = 2 \vee 7 =$$

$$\cdot|\cdot|\cdot|\cdot|\cdot \quad 3 + 3 + 1 = 2 \times 3 + 1 = 3 \vee 7 =$$

$$\cdot|\cdot|\cdot|\cdot|\cdot \quad 4 + 3 = 7 - 3 = 7 = 4 + \\ 3 + 4 = 7 - 4 = 7 = 3 + \\ 1 \times 4 + 3 = 4 \vee 7 =$$

$$\cdot|\cdot|\cdot|\cdot|\cdot \quad 5 + 2 = 7 - 2 = 7 = 5 + \\ 2 + 5 = 7 - 5 = 7 = 2 + \\ 1 \times 5 + 2 = 5 \vee 7 =$$

$$\cdot|\cdot|\cdot|\cdot|\cdot \quad 6 + 1 = 7 - 1 = 7 = 6 + \\ 1 + 6 = 7 - 6 = 7 = 1 + \\ 1 \times 6 + 1 = 6 \vee 7 =$$

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

$1 \times 2 =$	$6 = 3 \times$	$2 \text{ ve } 2 =$	$3 \vee 5 =$	$\frac{1}{2} \text{ ze } 2 =$
$2 \times 2 =$	$4 = 2 \times$	$2 \text{ ve } 3 =$	$3 \vee 6 =$	$\frac{1}{2} \text{ ze } 4 =$
$3 \times 2 =$	$2 = 1 \times$	$2 \text{ ve } 4 =$	$3 \vee 7 =$	$\frac{1}{2} \text{ ze } 6 =$
$1 \times 3 =$	$7 = 1 \times$	$2 \vee 5 =$	$4 \text{ ve } 4 =$	$\frac{1}{2} \text{ ze } 3 =$
$2 \times 3 =$	$. + 2 = 4$	$2 \vee 6 =$	$4 \vee 5 =$	$\frac{1}{2} \text{ ze } 6 =$
$1 \times 5 =$	$. + 1 = 5$	$2 \vee 7 =$	$5 \vee 6 =$	$\frac{1}{2} \text{ ze } 4 =$
$1 \times 6 =$	$. + 3 = 6$	$3 \text{ ve } 3 =$	$6 \vee 7 =$	$\frac{1}{2} \text{ ze } 5 =$
$1 \times 7 =$	$. + 2 = 6$	$3 \text{ ve } 4 =$	$7 \vee 7 =$	$\frac{1}{2} \text{ ze } 7 =$

$2+2+2=$	$2+5-4=$	$1 \times 5+2=$	$\frac{1}{6} z 6+5=$
$7-5+3=$	$7-2+1=$	$7 \times 1-4=$	$\frac{1}{2} z 4+4=$
$1+3+2=$	$6-3-2=$	$2 \times 3-3=$	$\frac{1}{2} z 6-3=$
$5-2+4=$	$4-3+6=$	$3 \times 2+1=$	$\frac{1}{2} z 6-1=$
$4+3-6=$	$7-5-2=$	$1 \times 6-4=$	$\frac{1}{2} z 2+6=$
$3-2+1=$	$5+1-4=$	$4 \times 1+3=$	$\frac{1}{2} z 5+2=$
$7-3+1=$	$2+4-5=$	$1 \times 1+5=$	$\frac{1}{7} z 7-1=$
$7-4+3=$	$7-2-4=$	$6 \times 1-6=$	$\frac{1}{5} z 4+5=$



$\cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot$	$1+1+1+1+1+1+1+1=$	$8 \times 1=$	$1 \vee 8=$	$\frac{1}{8} z 8=$
$\cdot \cdot \cdot \cdot$	$2+2+2+2=$	$4 \times 2=$	$2 \vee 8=$	$\frac{1}{4} z 8=$
$\cdot \cdot \cdot$	$3+3+2=$	$2 \times 3+2=$	$3 \vee 8=$	
$\cdot \cdot \cdot$	$4+4=$	$8-4=$	$8=4+$	
$\cdot \cdot \cdot$	$2 \times 4=$	$4 \vee 8=$	$\frac{1}{2} z 8=$	
$\cdot \cdot \cdot$	$5+3=$	$8-3=$	$8=5+$	
$\cdot \cdot \cdot$	$3+5=$	$8-5=$	$8=3+$	
	$1 \times 5+3=$	$5 \vee 8=$		
$\cdot \cdot \cdot$	$6+2=$	$8-2=$	$8=6+$	
$\cdot \cdot \cdot$	$2+6=$	$8-6=$	$8=2+$	
	$1 \times 6+2=$	$6 \vee 8=$		
$\cdot \cdot \cdot$	$7+1=$	$8-1=$	$8=7+$	
$\cdot \cdot \cdot$	$1+7=$	$8-7=$	$8=1+$	
	$1 \times 7+1=$	$7 \vee 8=$		

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

$$\begin{array}{l|l|l|l|l}
 6-1= & 7-2= & 6-3= & 5-4= & 6-5= \\
 8-1= & 6-2= & 5-3= & 7-4= & 8-5= \\
 5-1= & 4-2= & 8-3= & 8-4= & 7-6= \\
 7-1= & 8-2= & 4-3= & 4-4= & 8-6= \\
 2-1= & 3-2= & 7-3= & 7-5= & 8-7=
 \end{array}$$

$$\begin{array}{l|l|l|l}
 3 \times 2 = & 2 \vee 8 = & 5 + 2 + 1 = & 4 \times 2 - 5 = \\
 1 \times 8 = & 4 \vee 8 = & 3 + 3 + 2 = & 5 \times 1 + 3 = \\
 2 \times 4 = & 3 \vee 7 = & 8 - 6 + 3 = & 3 \times 2 - 6 = \\
 2 \times \cdot = 6 & \frac{1}{2} z 8 = & 7 - 3 - 1 = & \frac{1}{4} z 8 + 4 = \\
 \cdot \times 1 = 7 & \frac{1}{3} ze 6 = & 3 + 5 - 7 = & \frac{1}{8} z 8 + 3 =
 \end{array}$$



$$\begin{array}{l|l}
 \cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot & 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 = \\
 & 9 \times 1 = \quad \quad \quad 1 \vee 9 = \quad \quad \quad \frac{1}{9} z 9 = \\
 \cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot & 2 + 2 + 2 + 2 + 1 = \\
 & 4 \times 2 + 1 = \quad \quad \quad 2 \vee 9 = \\
 \cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot & 3 + 3 + 3 = \\
 & 3 \times 3 = \quad \quad \quad 3 \vee 9 = \quad \quad \quad \frac{1}{3} z 9 = \\
 \cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot & 4 + 4 + 1 = \\
 & 2 \times 4 + 1 = \quad \quad \quad 4 \vee 9 = \\
 \cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot & 5 + 4 = \quad \quad \quad 9 - 4 = \quad \quad \quad 9 = 5 + \\
 & 4 + 5 = \quad \quad \quad 9 - 5 = \quad \quad \quad 9 = 4 + \\
 & 1 \times 5 + 4 = \quad \quad \quad 5 \vee 9 = \\
 \cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot & 6 + 3 = \quad \quad \quad 9 - 3 = \quad \quad \quad 9 = 6 + \\
 & 3 + 6 = \quad \quad \quad 9 - 6 = \quad \quad \quad 9 = 3 + \\
 & 1 \times 6 + 3 = \quad \quad \quad 6 \vee 9 = \\
 \cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot & 7 + 2 = \quad \quad \quad 9 - 2 = \quad \quad \quad 9 = 7 + \\
 & 2 + 7 = \quad \quad \quad 9 - 7 = \quad \quad \quad 9 = 2 + \\
 & 1 \times 7 + 2 = \quad \quad \quad 7 \vee 9 = \\
 \cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot & 8 + 1 = \quad \quad \quad 9 - 1 = \quad \quad \quad 9 = 8 + \\
 & 1 + 8 = \quad \quad \quad 9 - 8 = \quad \quad \quad 9 = 1 + \\
 & 1 \times 8 + 1 = \quad \quad \quad 8 \vee 9 =
 \end{array}$$

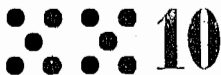


7 + 1 =	5 + 2 =	3 + 3 =	5 - 1 =	8 - 5 =
2 + 2 =	3 + 1 =	8 + 1 =	6 - 2 =	9 - 4 =
1 + 3 =	6 + 2 =	4 + 2 =	4 - 3 =	7 - 1 =
2 + 4 =	5 + 1 =	5 + 3 =	9 - 1 =	9 - 2 =
3 + 5 =	6 + 3 =	4 + 2 =	8 - 2 =	5 - 3 =
2 + 6 =	6 + 1 =	2 + 3 =	6 - 4 =	8 - 8 =
2 + 7 =	7 + 2 =	3 + 5 =	4 - 1 =	9 - 7 =
1 + 5 =	5 + 2 =	3 + 2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

2 × 1 =	1 × 6 =	2 v 6 =	4 v 9 =	$\frac{1}{2}$ ze 4 =
1 × 5 =	2 × 2 =	1 v 9 =	2 v 5 =	z 8 =
2 × 4 =	1 × 7 =	2 v <sup>o</sup> 4 =	3 v 8 =	z 5 =
3 × 3 =	2 × 3 =	3 v 6 =	4 v 7 =	ze 6 =
4 × 2 =	4 × 1 =	2 v 8 =	2 v 9 =	ze 4 =
6 × 1 =	1 × 9 =	3 v 9 =	3 v 7 =	z 8 =
1 × 8 =	3 × 2 =	4 v 8 =	5 v 9 =	z 9 =
3 × 1 =	5 × 1 =	7 v 7 =	6 v 8 =	ze 6 =

6 = 5 +.	8 +. = 9	8 = 2 ×.	× 2 = 4
4 = 1 +.	6 +. = 8	4 = 2 ×.	× 3 = 9
7 = 4 +.	2 +. = 4	7 = 7 ×.	× 1 = 3
9 = 6 +.	5 +. = 7	6 = 3 ×.	× 4 = 8
5 = 3 +.	4 +. = 5	8 = 4 ×.	× 2 = 6
3 = 1 +.	1 +. = 2	9 = 3 ×.	× 9 = 9
8 = 4 +.	3 +. = 6	6 = 2 ×.	× 2 = 8
9 = 7 +.	7 +. = 8	5 = 1 ×.	× 3 = 9

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



$\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot|\cdot$ 
 $1+1+1+1+1+1+1+1+1+1+1=$   
 $10 \times 1 = 1 \vee 10 = \frac{1}{10} z 10 =$

$\cdot|\cdot|\cdot|\cdot|\cdot$ 
 $2+2+2+2+2=$   
 $5 \times 2 = 2 \vee 10 = \frac{1}{5} z 10 =$

$\cdot|\cdot|\cdot|\cdot$ 
 $3+3+3+1=$   
 $3 \times 3 + 1 = 3 \vee 10 =$

$\cdot|\cdot|\cdot|\cdot$ 
 $4+4+2=$   
 $2 \times 4 + 2 = 4 \vee 10 =$

$\cdot|\cdot|\cdot|\cdot$ 
 $5+5= 10-5= 10=5+$   
 $2 \times 5 = 5 \vee 10 = \frac{1}{2} z 10 =$

$\cdot|\cdot|\cdot|\cdot$ 
 $6+4= 10-4= 10=6+$   
 $4+6= 10-6= 10=4+$   
 $1 \times 6 + 4 = 6 \vee 10 =$

$\cdot|\cdot|\cdot|\cdot$ 
 $7+3= 10-3= 10=7+$   
 $3+7= 10-7= 10=3+$   
 $1 \times 7 + 3 = 7 \vee 10 =$

$\cdot|\cdot|\cdot|\cdot$ 
 $8+2= 10-2= 10=8+$   
 $2+8= 10-8= 10=2+$   
 $1 \times 8 + 2 = 8 \vee 10 =$

$\cdot|\cdot|\cdot|\cdot$ 
 $9+1= 10-1= 10=9+$   
 $1+9= 10-9= 10=1+$   
 $1 \times 9 + 1 = 9 \vee 10 =$

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

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

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

3 × 1 =	1 × 2 =	2 × 4 =	8 = 2 ×.	× 3 = 3
7 × 1 =	5 × 2 =	1 × 5 =	6 = 3 ×.	× 2 = 4
6 × 1 =	3 × 2 =	2 × 5 =	2 = 2 ×.	× 7 = 7
2 × 1 =	4 × 2 =	1 × 6 =	10 = 5 ×.	× 3 = 9
5 × 1 =	2 × 2 =	1 × 7 =	4 = 2 ×.	× 2 = 6
8 × 1 =	2 × 3 =	1 × 8 =	7 = 7 ×.	× 4 = 8
4 × 1 =	3 × 3 =	1 × 9 =	9 = 3 ×.	× 3 = 6
10 × 1 =	1 × 3 =	1 × 10 =	5 = 5 ×.	× 5 = 10

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

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

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

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

## Oddíl druhý.

Obor čísel od deseti do dvaceti.



$$11 \times 1 = \quad 1 \vee 11 = \quad \frac{1}{11} z 11 =$$

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

$$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array} \quad 3 \times 3 + 2 = \quad 3 \vee 11 =$$

$$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array} \quad 2 \times 4 + 3 = \quad 4 \vee 11 =$$

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

$$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array} \cdot \quad \begin{array}{l} 6 + 5 = \quad 11 - 5 = \quad 11 = 6 +. \\ 5 + 6 = \quad 11 - 6 = \quad 11 = 5 +. \\ 1 \times 6 + 5 = \quad 6 \vee 11 = \end{array}$$

$$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array} \cdot \quad \begin{array}{l} 7 + 4 = \quad 11 - 4 = \quad 11 = 7 +. \\ 4 + 7 = \quad 11 - 7 = \quad 11 = 4 +. \\ 1 \times 7 + 4 = \quad 7 \vee 11 = \end{array}$$

$$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array} \cdot \quad \begin{array}{l} 8 + 3 = \quad 11 - 3 = \quad 11 = 8 +. \\ 3 + 8 = \quad 11 - 8 = \quad 11 = 3 +. \\ 1 \times 8 + 3 = \quad 8 \vee 11 = \end{array}$$

$$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array} \cdot \quad \begin{array}{l} 9 + 2 = \quad 11 - 2 = \quad 11 = 9 +. \\ 2 + 9 = \quad 11 - 9 = \quad 11 = 2 +. \\ 1 \times 9 + 2 = \quad 9 \vee 11 = \end{array}$$

$$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array} \cdot \quad \begin{array}{l} 10 + 1 = \quad 11 - 1 = \quad 11 = 10 +. \\ 1 + 10 = \quad 11 - 10 = \quad 11 = 1 +. \\ 1 \times 10 + 1 = \quad 10 \vee 11 = \end{array}$$

$$\begin{array}{l} 9+2= \quad 3+8= \quad 9+. = 11 \quad 11-2= \quad 11-7= \\ 6+5= \quad 5+6= \quad 5+. = 11 \quad 11-4= \quad 11-9= \\ 8+3= \quad 2+9= \quad 7+. = 11 \quad 11-3= \quad 11-6= \\ 7+4= \quad 4+7= \quad 3+. = 11 \quad 11-5= \quad 11-8= \end{array}$$

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

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

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

$2 \vee 10 =$	$4 \vee 4 =$	$2 \vee 5 =$	$4 \vee 6 =$	$7 \vee 10 =$
$2 \vee 6 =$	$4 \vee 8 =$	$2 \vee 9 =$	$4 \vee 11 =$	$8 \vee 9 =$
$2 \vee 8 =$	$5 \vee 10 =$	$2 \vee 11 =$	$5 \vee 7 =$	$8 \vee 11 =$
$3 \vee 9 =$	$6 \vee 6 =$	$3 \vee 8 =$	$5 \vee 11 =$	$9 \vee 10 =$
$3 \vee 6 =$	$9 \vee 9 =$	$3 \vee 11 =$	$6 \vee 11 =$	$9 \vee 11 =$

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



## 12

	$12 \times 1 =$	$1 \text{ ve } 12 =$	$\frac{1}{12} \text{ ze } 12 =$
$\begin{array}{ c c c c c } \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array}$	$6 \times 2 =$	$2 \text{ ve } 12 =$	$\frac{1}{6} \text{ ze } 12 =$
$\begin{array}{ c c c } \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \end{array}$	$4 \times 3 =$	$3 \text{ ve } 12 =$	$\frac{1}{4} \text{ ze } 12 =$
$\begin{array}{ c c c } \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \end{array}$	$3 \times 4 =$	$4 \text{ ve } 12 =$	$\frac{1}{3} \text{ ze } 12 =$
$\begin{array}{ c c } \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array}$	$2 \times 5 + 2 =$	$5 \text{ ve } 12 =$	
$\begin{array}{ c c } \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array}$	$6 + 6 =$	$12 - 6 =$	$12 = 6 +.$
$\begin{array}{ c c } \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array}$	$2 \times 6 =$	$6 \text{ ve } 12 =$	$\frac{1}{2} \text{ ze } 12 =$
$\begin{array}{ c c } \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array}$	$7 + 5 =$	$12 - 5 =$	$12 = 7 +.$
$\begin{array}{ c c } \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array}$	$5 + 7 =$	$12 - 7 =$	$12 = 5 +.$
	$1 \times 7 + 5 =$	$7 \text{ ve } 12 =$	
$\begin{array}{ c c } \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array}$	$8 + 4 =$	$12 - 4 =$	$12 = 8 +.$
$\begin{array}{ c c } \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array}$	$4 + 8 =$	$12 - 8 =$	$12 = 4 +.$
	$1 \times 8 + 4 =$	$8 \text{ ve } 12 =$	
$\begin{array}{ c c } \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array}$	$9 + 3 =$	$12 - 3 =$	$12 = 9 +.$
$\begin{array}{ c c } \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array}$	$3 + 9 =$	$12 - 9 =$	$12 = 3 +.$
	$1 \times 9 + 3 =$	$9 \text{ ve } 12 =$	
$\begin{array}{ c c } \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array}$	$10 + 2 =$	$12 - 2 =$	$12 = 10 +.$
$\begin{array}{ c c } \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array}$	$2 + 10 =$	$12 - 10 =$	$12 = 2 +.$
	$1 \times 10 + 2 =$	$10 \text{ ve } 12 =$	

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

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

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

3 × 4 =	2 × 2 =	2 × 6 =	4 × 3 =	6 = . × 2
5 × 2 =	7 × 1 =	3 × 2 =	1 × 6 =	12 = . × 3
2 × 3 =	3 × 3 =	8 × 1 =	9 × 1 =	8 = . × 2
6 × 2 =	2 × 5 =	4 × 2 =	1 × 10 =	10 = 5 × .
2 × 4 =	1 × 9 =	1 × 7 =	3 × 1 =	12 = 2 × .

2 v 4 =	2 v 8 =	2 v 9 =	2 v 10 =	2 ve 12 =
3 ve 4 =	3 v 8 =	3 v 9 =	3 v 10 =	3 ve 12 =
2 v 6 =	4 v 8 =	5 v 9 =	4 v 10 =	4 ve 12 =
3 v 6 =	5 v 8 =	6 v 9 =	5 v 10 =	5 ve 12 =
5 v 6 =	7 v 8 =	8 v 9 =	7 v 10 =	6 ve 12 =

$\frac{1}{2}$ ze 2 =	$\frac{1}{3}$ ze 6 =	$\frac{1}{2}$ z 8 =	$\frac{1}{9}$ z 9 =	$\frac{1}{2}$ ze 12 =
$\frac{1}{2}$ ze 4 =	$\frac{1}{3}$ ze 6 =	$\frac{1}{4}$ z 8 =	$\frac{1}{2}$ z 10 =	$\frac{1}{3}$ ze 12 =
$\frac{1}{4}$ ze 4 =	$\frac{1}{6}$ ze 6 =	$\frac{1}{8}$ z 8 =	$\frac{1}{5}$ z 10 =	$\frac{1}{3}$ ze 12 =
$\frac{1}{5}$ z 5 =	$\frac{1}{7}$ ze 7 =	$\frac{1}{3}$ z 9 =	$\frac{1}{10}$ z 10 =	$\frac{1}{6}$ ze 12 =

2 × 5 + 2 =	5 × 2 + 1 =	$\frac{1}{2}$ ze 4 + 8 =	$\frac{1}{4}$ z 8 + 9 =
6 × 2 - 3 =	4 × 3 - 5 =	$\frac{1}{3}$ ze 12 - 3 =	$\frac{1}{2}$ z 10 - 4 =
3 × 3 + 3 =	3 × 2 + 6 =	$\frac{1}{5}$ z 10 + 7 =	ze 12 + 5 =
3 × 4 - 4 =	2 × 6 - 7 =	$\frac{1}{2}$ ze 12 - 4 =	$\frac{1}{8}$ ze 12 - 3 =





## 13

$13 \times 1 =$	$1 \text{ ve } 13 =$	$\frac{1}{13} \text{ ze } 13 =$	
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$6 \times 2 + 1 =$	$2 \text{ ve } 13 =$	
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$4 \times 3 + 1 =$	$3 \text{ ve } 13 =$	
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$3 \times 4 + 1 =$	$4 \text{ ve } 13 =$	
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$2 \times 5 + 3 =$	$5 \text{ ve } 13 =$	
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$2 \times 6 + 1 =$	$6 \text{ ve } 13 =$	
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$7 + 6 =$	$13 - 6 =$	$13 = 7 +$
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$6 + 7 =$	$13 - 7 =$	$13 = 6 +$
	$1 \times 7 + 6 =$	$7 \text{ ve } 13 =$	
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$8 + 5 =$	$13 - 5 =$	$13 = 8 +$
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$5 + 8 =$	$13 - 8 =$	$13 = 5 +$
	$1 \times 8 + 5 =$	$8 \text{ ve } 13 =$	
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$9 + 4 =$	$13 - 4 =$	$13 = 9 +$
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$4 + 9 =$	$13 - 9 =$	$13 = 4 +$
	$1 \times 9 + 4 =$	$9 \text{ ve } 13 =$	
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$10 + 3 =$	$13 - 3 =$	$13 = 10 +$
$\begin{array}{c} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{array}$	$3 + 10 =$	$13 - 10 =$	$13 = 3 +$
	$1 \times 10 + 3 =$	$10 \text{ ve } 13 =$	

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

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

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

3 × 2 =	5 × 2 =	3 × 4 =	2 × 5 =	10 = × 5
6 × 2 =	3 × 1 =	2 × 4 =	2 × 6 =	6 = × 2
4 × 2 =	3 × 3 =	4 × 1 =	7 × 1 =	12 = 3 ×
2 × 2 =	3 × 2 =	4 × 3 =	1 × 9 =	8 = 4 ×

2 ve 2 =	2 ve 12 =	4 v 8 =	6 v 6 =
2 v 10 =	3 v 6 =	4 ve 4 =	6 ve 12 =
2 ve 4 =	3 ve 12 =	4 ve 12 =	7 v 11 =
2 v 6 =	3 ve 3 =	5 v 5 =	8 ve 13 =
2 v 8 =	3 v 9 =	5 v 10 =	9 ve 12 =

$\frac{1}{2}$ z 10 =	$\frac{1}{2}$ ze 6 =	$\frac{1}{3}$ ze 12 =	$\frac{1}{5}$ z 10 =	$\frac{1}{7}$ ze 7 =
$\frac{1}{2}$ z 8 =	$\frac{1}{2}$ ze 2 =	ze 4 =	$\frac{1}{5}$ z 5 =	$\frac{1}{8}$ z 8 =
$\frac{1}{2}$ ze 4 =	z 9 =	z 8 =	ze 6 =	$\frac{1}{9}$ z 9 =
$\frac{1}{2}$ ze 12 =	$\frac{1}{3}$ ze 3 =	$\frac{1}{4}$ ze 12 =	$\frac{1}{10}$ ze 12 =	$\frac{1}{10}$ z 10 =

2 × 3 + 7 =	2 × 6 - 5 =	$\frac{1}{3}$ z 9 + 9 =	$\frac{1}{3}$ ze 12 - 1 =
4 × 2 + 4 =	4 × 3 - 6 =	$\frac{1}{9}$ ze 12 + 8 =	$\frac{1}{2}$ ze 12 - 5 =
3 × 3 + 3 =	5 × 2 - 8 =	$\frac{1}{5}$ z 10 + 4 =	$\frac{1}{2}$ z 10 - 2 =
2 × 2 + 9 =	2 × 4 - 3 =	$\frac{1}{4}$ z 8 + 6 =	$\frac{1}{3}$ ze 12 - 3 =

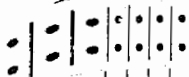


## 14

$14 \times 1 =$

$1 \text{ ve } 14 =$

$\frac{1}{13} \text{ ze } 14 =$



$7 \times 2 =$

$2 \text{ ve } 14 =$

$\frac{1}{7} \text{ ze } 14 =$



$4 \times 3 + 2 =$

$3 \text{ ve } 14 =$



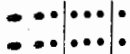
$3 \times 4 + 2 =$

$4 \text{ ve } 14 =$



$2 \times 5 + 4 =$

$5 \text{ ve } 14 =$



$2 \times 6 + 2 =$

$6 \text{ ve } 14 =$



$7 + 7 =$

$14 - 7 =$

$14 = 7 +$



$2 \times 7 =$

$7 \text{ ve } 14 =$

$\frac{1}{2} \text{ ze } 14 =$



$8 + 6 =$

$14 - 6 =$

$14 = 8 +$



$6 + 8 =$

$14 - 8 =$

$14 = 6 +$

$1 \times 8 + 6 =$

$8 \text{ ve } 14 =$



$9 + 5 =$

$14 - 5 =$

$14 = 9 +$



$5 + 9 =$

$14 - 9 =$

$14 = 5 +$

$1 \times 9 + 5 =$

$9 \text{ ve } 14 =$



$10 + 4 =$

$14 - 4 =$

$14 = 10 +$



$4 + 10 =$

$14 - 10 =$

$14 = 4 +$

$1 \times 10 + 4 =$

$10 \text{ ve } 14 =$

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

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

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




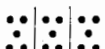

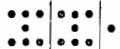


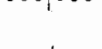

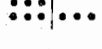

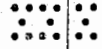
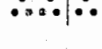

2 × 4 =	2 × 2 =	3 × 3 =	6 × 1 =	12 = . × 4
2 × 6 =	2 × 5 =	4 × 3 =	6 × 2 =	10 = . × 2
2 × 3 =	3 × 4 =	4 × 2 =	7 × 2 =	14 = 2 × .
2 × 7 =	3 × 2 =	5 × 2 =	8 × 1 =	9 = 3 × .

2 v 6 =	3 ve 12 =	2 ve 14 =	2 ve 13 =
4 ve 12 =	2 v 8 =	2 ve 4 =	3 v 10 =
7 ve 14 =	4 v 8 =	3 ve 3 =	4 ve 14 =
3 v 9 =	2 v 10 =	2 ve 12 =	5 ve 12 =
5 v 10 =	3 v 6 =	8 v 8 =	6 v 11 =

$\frac{1}{2}$ ze 6 =	$\frac{1}{2}$ z 8 =	$\frac{1}{2}$ ze 12 =	$\frac{1}{2}$ z 10 =	$\frac{1}{2}$ ze 6 =
$\frac{1}{2}$ z 10 =	$\frac{1}{2}$ ze 12 =	$\frac{1}{2}$ ze 14 =	$\frac{1}{2}$ z 8 =	$\frac{1}{2}$ ze 3 =
$\frac{1}{2}$ ze 12 =	$\frac{1}{2}$ z 9 =	$\frac{1}{2}$ ze 4 =	$\frac{1}{2}$ ze 6 =	$\frac{1}{2}$ ze 4 =
$\frac{1}{2}$ ze 14 =	$\frac{1}{2}$ ze 4 =	$\frac{1}{2}$ z 8 =	$\frac{1}{2}$ ze 12 =	$\frac{1}{2}$ z 9 =

3 × 3 + 5 =	5 × 2 + 4 =	$\frac{1}{2}$ ze 14 + 8 =	$\frac{1}{2}$ ze 12 + 7 =
2 × 7 - 6 =	2 × 6 - 9 =	$\frac{1}{2}$ ze 12 - 3 =	$\frac{1}{2}$ z 8 - 4 =
4 × 2 + 4 =	2 × 2 + 7 =	$\frac{1}{2}$ ze 4 + 5 =	$\frac{1}{2}$ ze 12 + 6 =
2 × 4 - 3 =	7 × 2 - 8 =	$\frac{1}{2}$ z 10 - 2 =	$\frac{1}{2}$ ze 14 - 5 =



$15 \times 1 =$	$1 \vee 15 =$	$\frac{1}{15} z 15 =$
	$7 \times 2 + 1 =$	$2 \vee 15 =$
	$3 \vee 15 =$	$\frac{1}{3} z 15 =$
	$3 \times 4 + 3 =$	$4 \vee 15 =$
	$3 \times 5 =$	$5 \vee 15 =$
	$2 \times 6 + 3 =$	$6 \vee 15 =$
	$2 \times 7 + 1 =$	$7 \vee 15 =$
	$8 + 7 =$	$15 - 7 =$
	$7 + 8 =$	$15 - 8 =$
	$1 \times 8 + 7 =$	$8 \vee 15 =$
	$9 + 6 =$	$15 - 6 =$
	$6 + 9 =$	$15 - 9 =$
	$1 \times 9 + 6 =$	$9 \vee 15 =$
	$10 + 5 =$	$15 - 5 =$
	$5 + 10 =$	$15 - 10 =$
	$1 \times 10 + 5 =$	$10 \vee 15 =$

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

$$\begin{array}{|l}
 11-2= \\
 9-2= \\
 7-2= \\
 5-2= \\
 3-2= \\
 12-3= \\
 9-3= \\
 6-3=
 \end{array}
 \begin{array}{|l}
 13-4= \\
 9-4= \\
 5-4= \\
 15-5= \\
 10-5= \\
 5-5= \\
 12-5= \\
 7-5=
 \end{array}
 \begin{array}{|l}
 13-5= \\
 8-5= \\
 6-5= \\
 9-5= \\
 15-6= \\
 9-6= \\
 13-6= \\
 7-6=
 \end{array}
 \begin{array}{|l}
 10-6= \\
 8-6= \\
 13-7= \\
 15-7= \\
 8-7= \\
 10-7= \\
 14-7= \\
 11-7=
 \end{array}
 \begin{array}{|l}
 12-8= \\
 10-8= \\
 9-8= \\
 15-8= \\
 12-9= \\
 10-9= \\
 15-9= \\
 13-9=
 \end{array}$$

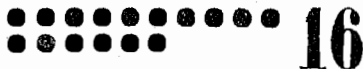
$$\begin{array}{|l}
 3+5+2+4= \\
 1+4+3+7= \\
 4+2+2+6= \\
 2+3+5+5= \\
 1+2+3+4= \\
 2+2+6+4=
 \end{array}
 \begin{array}{|l}
 12-4-2-3= \\
 15-5-4-6= \\
 13-3-5-4= \\
 14-5-4-5= \\
 11-2-1-6= \\
 15-6-2-4=
 \end{array}
 \begin{array}{|l}
 7+8-6-5= \\
 15-6+4-8= \\
 3+7-6+9= \\
 5+4+6-7= \\
 14-8-5+6= \\
 10+5-9+8=
 \end{array}$$

$$\begin{array}{|l}
 2 \times 4 = \\
 3 \times 5 = \\
 4 \times 2 = \\
 2 \times 5 =
 \end{array}
 \begin{array}{|l}
 3 \times 2 = \\
 2 \times 6 = \\
 3 \times 4 = \\
 2 \times 2 =
 \end{array}
 \begin{array}{|l}
 5 \times 3 = \\
 2 \times 7 = \\
 5 \times 2 = \\
 3 \times 3 =
 \end{array}
 \begin{array}{|l}
 7 \times 2 = \\
 4 \times 3 = \\
 6 \times 2 = \\
 2 \times 3 =
 \end{array}
 \begin{array}{|l}
 15 = . \times 3 \\
 12 = . \times 4 \\
 10 = 2 \times . \\
 15 = 5 \times .
 \end{array}$$

$$\begin{array}{|l}
 2 \vee 8 = \\
 3 \vee 8 = \\
 4 \vee 8 = \\
 5 \vee 8 =
 \end{array}
 \begin{array}{|l}
 2 \vee 10 = \\
 3 \vee 10 = \\
 4 \vee 10 = \\
 5 \vee 10 =
 \end{array}
 \begin{array}{|l}
 2 \vee e 12 = \\
 3 \vee e 12 = \\
 4 \vee e 12 = \\
 6 \vee e 12 =
 \end{array}
 \begin{array}{|l}
 2 \vee e 14 = \\
 3 \vee e 14 = \\
 5 \vee e 14 = \\
 7 \vee e 14 =
 \end{array}
 \begin{array}{|l}
 2 \vee 15 = \\
 3 \vee 15 = \\
 4 \vee 15 = \\
 5 \vee 15 =
 \end{array}$$

$$\begin{array}{|l}
 \frac{1}{2} z e 12 = \\
 \frac{1}{3} z e 6 = \\
 \frac{1}{4} z e 4 = \\
 \frac{1}{5} z e 12 =
 \end{array}
 \begin{array}{|l}
 \frac{1}{5} z 10 = \\
 \frac{1}{4} z 8 = \\
 \frac{1}{2} z 8 = \\
 \frac{1}{3} z 15 =
 \end{array}
 \begin{array}{|l}
 \frac{1}{3} z 8 = \\
 \frac{1}{5} z 15 = \\
 \frac{1}{2} z 10 = \\
 \frac{1}{2} z e 14 =
 \end{array}
 \begin{array}{|l}
 \frac{1}{3} z e 3 = \\
 \frac{1}{7} z e 14 = \\
 \frac{1}{3} z 9 = \\
 \frac{1}{4} z e 12 =
 \end{array}
 \begin{array}{|l}
 \frac{1}{2} z e 6 = \\
 \frac{1}{7} z e 7 = \\
 \frac{1}{6} z e 12 = \\
 \frac{1}{8} z 9 =
 \end{array}$$

$$\begin{array}{|l}
 3 \times 5 - 6 = \\
 5 \times 2 + 3 = \\
 2 \times 6 - 5 = \\
 3 \times 4 + 3 = \\
 5 \times 3 - 9 =
 \end{array}
 \begin{array}{|l}
 2 \times 7 - 4 = \\
 6 \times 2 - 8 = \\
 3 \times 3 + 6 = \\
 7 \times 2 - 5 = \\
 4 \times 3 + 3 =
 \end{array}
 \begin{array}{|l}
 \frac{1}{5} z 15 + 9 = \\
 \frac{1}{2} z e 14 - 5 = \\
 \frac{1}{3} z 15 - 4 = \\
 \frac{1}{3} z 8 + 7 = \\
 \frac{1}{5} z 10 + 8 =
 \end{array}
 \begin{array}{|l}
 \frac{1}{7} z e 14 + 6 = \\
 z e 12 + 8 = \\
 z e 12 + 3 = \\
 z 10 - 4 = \\
 \frac{1}{2} z e 12 - 6 =
 \end{array}$$



$$16 \times 1 = \quad 1 \vee 16 = \quad \frac{1}{16} \text{ ze } 16 =$$

$$\begin{array}{|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} 8 \times 2 = \quad 2 \vee 16 = \quad \frac{1}{8} \text{ ze } 16 =$$

$$\begin{array}{|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} 5 \times 3 + 1 = \quad 3 \vee 16 =$$

$$\begin{array}{|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} 4 \times 4 = \quad 4 \vee 16 = \quad \frac{1}{4} \text{ ze } 16 =$$

$$\begin{array}{|c|c|c|} \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \end{array} 3 \times 5 + 1 = \quad 5 \vee 16 =$$

$$\begin{array}{|c|c|c|} \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \cdot & \cdot & \cdot \\ \hline \end{array} 2 \times 6 + 4 = \quad 6 \vee 16 =$$

$$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array} 2 \times 7 + 2 = \quad 7 \vee 16 =$$

$$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array} 8 + 8 = \quad 16 - 8 = \quad 16 = 8 +,$$

$$2 \times 8 = \quad 8 \vee 16 = \quad \frac{1}{2} \text{ ze } 16 =$$

$$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array} 9 + 7 = \quad 16 - 7 = \quad 16 = 9 +,$$

$$7 + 9 = \quad 16 - 9 = \quad 16 = 7 +,$$

$$1 \times 9 + 7 = \quad 9 \vee 16 =$$

$$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \cdot & \cdot \\ \hline \end{array} 10 + 6 = \quad 16 - 6 = \quad 16 = 10 +,$$

$$6 + 10 = \quad 16 - 10 = \quad 16 = 6 +,$$

$$1 \times 10 + 6 = \quad 10 \vee 16 =$$

$$\begin{array}{|c|c|c|c|c|} \hline 1 + 1 = & 1 + 4 = & 2 + 2 = & 3 + 1 = & 4 + 1 = \\ \hline 11 + 1 = & 11 + 4 = & 12 + 2 = & 13 + 1 = & 14 + 1 = \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|c|} \hline 1 + 2 = & 1 + 5 = & 2 + 3 = & 3 + 2 = & 4 + 2 = \\ \hline 11 + 2 = & 11 + 5 = & 12 + 3 = & 13 + 2 = & 14 + 2 = \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|c|} \hline 1 + 3 = & 2 + 1 = & 2 + 4 = & 3 + 3 = & 5 + 1 = \\ \hline 11 + 3 = & 12 + 1 = & 12 + 4 = & 13 + 3 = & 15 + 1 = \\ \hline \end{array}$$

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

$$\begin{array}{|c|c|c|c|c|} \hline 2-1= & 4-1= & 5-1= & 5-4= & 6-3= \\ \hline 12-1= & 14-1= & 15-1= & 15-4= & 16-3= \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|c|} \hline 3-1= & 4-2= & 5-2= & 6-1= & 6-4= \\ \hline 13-1= & 14-2= & 15-2= & 16-1= & 16-4= \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|c|} \hline 3-2= & 4-3= & 5-3= & 6-2= & 6-5= \\ \hline 13-2= & 14-3= & 15-3= & 16-2= & 16-5= \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|} \hline 16-3-8= & 3+4+7-9= & 8+5-7+9= \\ \hline 15-4-9= & 5+6+5-4= & 7-5+8+6= \\ \hline 12+2-7= & 6+7-2-8= & 9+4+3-5= \\ \hline 11-5+6= & 4+8-6-4= & 15-6+7-8= \\ \hline 8+5-4= & 16-5+3-9= & 2+6-6+7= \\ \hline 15-9+6= & 12-8+9-2= & 16-4+3-6= \\ \hline \end{array}$$

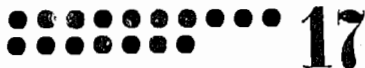
$$\begin{array}{|c|c|c|c|c|} \hline 2 \times 7 = & 8 \times 2 = & 5 \times 2 = & 2 \times 8 = & 16 = 2 \times . \\ \hline 3 \times 4 = & 2 \times 3 = & 2 \times 4 = & 3 \times 3 = & 14 = 7 \times . \\ \hline 4 \times 4 = & 2 \times 5 = & 7 \times 2 = & 4 \times 2 = & 12 = . \times 3 \\ \hline 5 \times 3 = & 4 \times 3 = & 3 \times 5 = & 2 \times 6 = & 16 = . \times 4 \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|c|} \hline 2 \text{ ve } 14 = & 3 \text{ ve } 12 = & 4 \text{ v } 16 = & 3 \text{ v } 11 = & 2 \text{ v } 7 = \\ \hline 8 \text{ v } 16 = & 2 \text{ v } 6 = & 5 \text{ v } 10 = & 5 \text{ ve } 13 = & 4 \text{ ve } 13 = \\ \hline 5 \text{ v } 10 = & 6 \text{ ve } 12 = & 3 \text{ v } 15 = & 7 \text{ v } 16 = & 6 \text{ v } 15 = \\ \hline 2 \text{ v } 16 = & 3 \text{ v } 9 = & 2 \text{ v } 8 = & 9 \text{ ve } 14 = & 8 \text{ ve } 12 = \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|c|} \hline \frac{1}{8} \text{ ze } 16 = & \frac{1}{2} \text{ z } 10 = & \frac{1}{2} \text{ ze } 16 = & \frac{1}{2} \text{ ze } 14 = & \frac{1}{8} \text{ ze } 12 = \\ \hline \frac{1}{2} \text{ ze } 6 = & \frac{1}{3} \text{ ze } 12 = & \frac{1}{3} \text{ z } 9 = & \frac{1}{3} \text{ ze } 12 = & \frac{1}{2} \text{ z } 8 = \\ \hline \frac{1}{5} \text{ z } 10 = & \frac{1}{5} \text{ z } 15 = & \frac{1}{4} \text{ z } 8 = & \frac{1}{4} \text{ ze } 16 = & \frac{1}{3} \text{ ze } 6 = \\ \hline \frac{1}{2} \text{ ze } 4 = & \frac{1}{7} \text{ ze } 14 = & \frac{1}{2} \text{ ze } 12 = & \frac{1}{3} \text{ z } 15 = & \frac{1}{7} \text{ ze } 7 = \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|c|} \hline 4 \times 3 + 3 = & 8 \times 2 - 6 = & \frac{1}{8} \text{ ze } 16 + 5 = & \frac{1}{8} \text{ z } 10 + 8 = \\ \hline 7 \times 2 - 5 = & 2 \times 6 + 4 = & \frac{1}{3} \text{ z } 15 - 3 = & \frac{1}{2} \text{ ze } 12 - 5 = \\ \hline 3 \times 5 + 1 = & 4 \times 4 - 8 = & \frac{1}{4} \text{ ze } 12 + 6 = & \frac{1}{5} \text{ z } 15 + 7 = \\ \hline 2 \times 8 - 4 = & 5 \times 2 + 3 = & \frac{1}{4} \text{ z } 8 - 2 = & \frac{1}{4} \text{ ze } 16 - 3 = \\ \hline 3 \times 3 + 7 = & 3 \times 4 - 5 = & \frac{1}{2} \text{ ze } 16 + 4 = & \frac{1}{3} \text{ ze } 12 + 9 = \\ \hline \end{array}$$





$17 \times 1 =$

$1 \vee 17 =$

$\frac{1}{17} \text{ ze } 17 =$



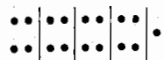
$8 \times 2 + 1 =$

$2 \vee 17 =$



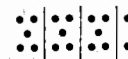
$5 \times 3 + 2 =$

$3 \vee 17 =$



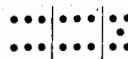
$4 \times 4 + 1 =$

$4 \vee 17 =$



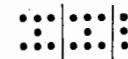
$3 \times 5 + 2 =$

$5 \vee 17 =$



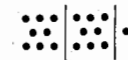
$2 \times 6 + 5 =$

$6 \vee 17 =$



$2 \times 7 + 3 =$

$7 \vee 17 =$



$2 \times 8 + 1 =$

$8 \vee 17 =$



$9 + 8 =$

$17 - 8 =$

$17 = 9 +$



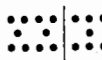
$8 + 9 =$

$17 - 9 =$

$17 = 8 +$

$1 \times 9 + 8 =$

$9 \vee 17 =$



$10 + 7 =$

$17 - 7 =$

$17 = 10 +$



$7 + 10 =$

$17 - 10 =$

$17 = 7 +$

$1 \times 10 + 7 =$

$10 \vee 17 =$

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

$$\begin{array}{l}
 17-2= \\
 15-2= \\
 13-2= \\
 11-2= \\
 9-2= \\
 7-2= \\
 5-2= \\
 3-2= \\
 16-3= \\
 13-3=
 \end{array}
 \begin{array}{l}
 10-3= \\
 7-3= \\
 4-3= \\
 15-3= \\
 12-3= \\
 9-3= \\
 6-3= \\
 3-3= \\
 17-4= \\
 13-4=
 \end{array}
 \begin{array}{l}
 9-4= \\
 5-4= \\
 15-4= \\
 11-4= \\
 7-4= \\
 14-4= \\
 10-4= \\
 6-4= \\
 16-5= \\
 11-5=
 \end{array}
 \begin{array}{l}
 6-5= \\
 17-5= \\
 12-5= \\
 7-5= \\
 17-6= \\
 11-6= \\
 16-6= \\
 10-6= \\
 14-6= \\
 8-6=
 \end{array}
 \begin{array}{l}
 17-7= \\
 10-7= \\
 16-7= \\
 9-7= \\
 17-8= \\
 9-8= \\
 15-8= \\
 17-9= \\
 15-9= \\
 13-9=
 \end{array}$$

$$\begin{array}{l}
 5+3+4+2= \\
 4+2+4+7= \\
 1+3+5+8= \\
 2+9+1+4=
 \end{array}
 \begin{array}{l}
 17-4-5-6= \\
 15-3-7-2= \\
 16-4-8-4= \\
 14-2-7-3=
 \end{array}
 \begin{array}{l}
 3+4+9-5= \\
 6+2-4+8= \\
 17-5+3-7= \\
 14-2-9+6=
 \end{array}$$

$$\begin{array}{l}
 3 \times 5 = \\
 4 \times 4 = \\
 2 \times 7 = \\
 3 \times 3 =
 \end{array}
 \begin{array}{l}
 5 \times 2 = \\
 2 \times 8 = \\
 5 \times 3 = \\
 2 \times 6 =
 \end{array}
 \begin{array}{l}
 7 \times 2 = \\
 2 \times 3 = \\
 4 \times 2 = \\
 8 \times 2 =
 \end{array}
 \begin{array}{l}
 8 =. \times 4 \\
 12 =. \times 3 \\
 14 =. \times 2 \\
 16 =. \times 8
 \end{array}
 \begin{array}{l}
 15 = 3 \times . \\
 10 = 5 \times . \\
 16 = 4 \times . \\
 12 = 3 \times .
 \end{array}$$

$$\begin{array}{l}
 2 \vee 16 = \\
 2 \vee 6 = \\
 2 \vee e 12 = \\
 2 \vee 8 = \\
 2 \vee 10 =
 \end{array}
 \begin{array}{l}
 2 \vee e 14 = \\
 2 \vee e 4 = \\
 3 \vee 9 = \\
 3 \vee 15 = \\
 3 \vee 6 =
 \end{array}
 \begin{array}{l}
 3 \vee e 12 = \\
 4 \vee 8 = \\
 4 \vee 16 = \\
 4 \vee e 12 = \\
 5 \vee 15 =
 \end{array}
 \begin{array}{l}
 5 \vee 10 = \\
 6 \veve 12 = \\
 7 \veve 14 = \\
 8 \veve 16 = \\
 9 \veve 9 =
 \end{array}
 \begin{array}{l}
 3 \veve 17 = \\
 4 \veve 13 = \\
 6 \veve 10 = \\
 8 \veve 17 = \\
 9 \veve 16 =
 \end{array}$$

$$\begin{array}{l}
 \frac{1}{2} z 8 = \\
 \frac{1}{3} z 15 = \\
 \frac{1}{4} z e 6 = \\
 \frac{1}{5} z e 4 =
 \end{array}
 \begin{array}{l}
 \frac{1}{3} z e 12 = \\
 \frac{1}{4} z 8 = \\
 \frac{1}{5} z e 12 = \\
 \frac{1}{5} z 10 =
 \end{array}
 \begin{array}{l}
 \frac{1}{4} z 8 = \\
 \frac{1}{7} z e 7 = \\
 \frac{1}{7} z e 6 = \\
 \frac{1}{6} z e 12 =
 \end{array}
 \begin{array}{l}
 \frac{1}{9} z 9 = \\
 \frac{1}{9} z e 3 = \\
 \frac{1}{5} z 15 = \\
 \frac{1}{2} z e 14 =
 \end{array}
 \begin{array}{l}
 \frac{1}{2} z 10 = \\
 \frac{1}{3} z 9 = \\
 \frac{1}{4} z e 12 = \\
 \frac{1}{7} z e 14 =
 \end{array}$$

$$\begin{array}{l}
 3 \times 2 + 8 = \\
 6 \times 2 + 5 = \\
 3 \times 3 + 7 = \\
 2 \times 5 + 6 =
 \end{array}
 \begin{array}{l}
 2 \times 7 - 3 = \\
 4 \times 4 - 5 = \\
 8 \times 2 - 6 = \\
 4 \times 3 - 7 =
 \end{array}
 \begin{array}{l}
 \frac{1}{2} z e 6 + 9 = \\
 \frac{1}{3} z 9 + 7 = \\
 \frac{1}{4} z 8 + 5 = \\
 \frac{1}{6} z e 12 + 8 =
 \end{array}
 \begin{array}{l}
 \frac{1}{2} z e 16 - 6 = \\
 \frac{1}{3} z 15 - 4 = \\
 \frac{1}{2} z e 14 - 7 = \\
 \frac{1}{4} z e 16 - 3 =
 \end{array}$$



$18 \times 1 = \quad 1 \vee 18 = \quad \frac{1}{18} z 18 =$

$\begin{array}{|c|c|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} 9 \times 2 = \quad 2 \vee 18 = \quad \frac{1}{9} z 18 =$

$\begin{array}{|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} 6 \times 3 = \quad 3 \vee 18 = \quad \frac{1}{6} z 18 =$

$\begin{array}{|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} 4 \times 4 + 2 = \quad 4 \vee 18 =$

$\begin{array}{|c|c|c|} \hline \cdot & \cdot & \cdot \\ \hline \end{array} 3 \times 5 + 3 = \quad 5 \vee 18 =$

$\begin{array}{|c|c|c|} \hline \cdot & \cdot & \cdot \\ \hline \end{array} 3 \times 6 = \quad 6 \vee 18 = \quad \frac{1}{3} z 18 =$

$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} 2 \times 7 + 4 = \quad 7 \vee 18 =$

$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} 2 \times 8 + 2 = \quad 8 \vee 18 =$

$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} 2 \times 9 = \quad 9 \vee 18 = \quad \frac{1}{2} z 18 =$

$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} 10 + 8 = \quad 18 - 8 = \quad 18 = 10 + .$

$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} 8 + 10 = \quad 18 - 10 = \quad 18 = 8 + .$

$1 \times 10 + 8 = \quad 10 \vee 18 =$

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

$9 + 4 = 8 + 7 = 7 + 6 = 6 + 8 = 4 + 9 =$

$9 + 2 = 8 + 3 = 7 + 9 = 6 + 7 = 3 + 7 =$

$9 + 6 = 8 + 6 = 7 + 4 = 5 + 5 = 3 + 8 =$

$9 + 5 = 8 + 8 = 7 + 7 = 5 + 9 = 2 + 8 =$

$9 + 9 = 8 + 4 = 7 + 5 = 5 + 6 = 2 + 9 =$

$9 + . = 10 \quad 8 + . = 10 \quad 7 + . = 10 \quad 6 + . = 10 \quad 4 + . = 10$

$9 + . = 12 \quad 8 + . = 16 \quad 7 + . = 13 \quad 6 + . = 14 \quad 4 + . = 13$

$9 + . = 15 \quad 8 + . = 12 \quad 7 + . = 11 \quad 5 + . = 10 \quad 3 + . = 11$

$9 + . = 18 \quad 8 + . = 14 \quad 7 + . = 15 \quad 5 + . = 12 \quad 2 + . = 10$

$$\begin{array}{l}
 11 - 1 = 12 - 2 = 13 - 3 = 14 - 4 = 16 - 6 = \\
 11 - 4 = 12 - 5 = 13 - 6 = 14 - 9 = 16 - 9 = \\
 11 - 8 = 12 - 9 = 13 - 8 = 14 - 6 = 17 - 7 = \\
 11 - 6 = 12 - 7 = 13 - 5 = 15 - 5 = 17 - 8 = \\
 11 - 9 = 12 - 4 = 13 - 9 = 15 - 7 = 18 - 8 = \\
 11 - 7 = 12 - 8 = 13 - 7 = 15 - 9 = 18 - 9 =
 \end{array}$$

$$\begin{array}{l}
 6 + 2 + 9 = 2 + 3 + 7 + 4 = 17 - 9 + 6 - 8 = \\
 4 + 5 + 6 = 5 + 6 + 4 + 3 = 15 - 8 - 3 + 6 = \\
 3 + 4 + 7 = 4 + 2 + 5 + 7 = 14 - 7 + 5 + 4 = \\
 18 - 7 - 8 = 18 - 4 - 5 - 6 = 6 + 9 - 8 + 6 = \\
 17 - 9 - 7 = 16 - 7 - 2 - 3 = 8 + 7 - 6 + 9 = \\
 8 + 8 - 8 = 6 + 7 - 5 + 9 = 16 - 8 + 6 - 5 = \\
 12 + 5 - 8 = 8 + 6 - 9 - 3 = 12 - 4 + 7 + 3 = \\
 17 - 6 + 4 = 12 - 8 + 7 - 5 = 18 - 5 - 4 + 9 =
 \end{array}$$

$$\begin{array}{l}
 3 \times 4 = 2 \times 9 = 6 \times 3 = 4 \times 3 = 14 = \cdot \times 7 \\
 2 \times 7 = 3 \times 5 = 7 \times 2 = 9 \times 2 = 15 = \cdot \times 3 \\
 3 \times 6 = 2 \times 8 = 5 \times 3 = 2 \times 6 = 16 = 2 \times \cdot \\
 4 \times 4 = 3 \times 3 = 8 \times 2 = 5 \times 2 = 18 = 6 \times \cdot
 \end{array}$$

$$\begin{array}{l}
 2 \text{ ve } 12 = 2 \text{ ve } 14 = 2 \text{ v } 16 = 2 \text{ v } 18 = 3 \text{ v } 10 = \\
 3 \text{ ve } 12 = 7 \text{ ve } 14 = 4 \text{ v } 16 = 3 \text{ v } 18 = 4 \text{ ve } 14 = \\
 4 \text{ ve } 12 = 3 \text{ v } 15 = 8 \text{ v } 16 = 6 \text{ v } 18 = 5 \text{ ve } 13 = \\
 6 \text{ ve } 12 = 5 \text{ v } 15 = 5 \text{ v } 10 = 9 \text{ v } 18 = 6 \text{ v } 16 =
 \end{array}$$

$$\begin{array}{l}
 \frac{1}{6} \text{ ze } 12 = \frac{1}{8} \text{ ze } 16 = \frac{1}{4} \text{ ze } 16 = \frac{1}{3} \text{ z } 9 = \frac{1}{5} \text{ z } 10 = \\
 \frac{1}{2} \text{ z } 10 = \frac{1}{5} \text{ z } 15 = \frac{1}{4} \text{ z } 18 = \frac{1}{2} \text{ ze } 16 = \frac{1}{2} \text{ ze } 12 = \\
 \frac{1}{4} \text{ z } 8 = \frac{1}{7} \text{ ze } 14 = \frac{1}{2} \text{ ze } 14 = \text{ z } 15 = \text{ z } 18 = \\
 \frac{1}{8} \text{ ze } 6 = \frac{1}{6} \text{ z } 18 = \frac{1}{8} \text{ ze } 12 = \frac{1}{2} \text{ z } 18 = \frac{1}{4} \text{ ze } 12 =
 \end{array}$$

$$\begin{array}{l}
 5 \times 2 + 8 = 4 \times 3 + 5 = \frac{1}{2} \text{ z } 10 + 8 = \frac{1}{4} \text{ ze } 12 + 9 = \\
 4 \times 4 - 7 = 3 \times 6 - 9 = \frac{1}{3} \text{ ze } 12 - 2 = \frac{1}{4} \text{ z } 18 - 4 = \\
 2 \times 4 + 6 = 2 \times 7 + 4 = \frac{1}{3} \text{ ze } 16 + 7 = \frac{1}{3} \text{ z } 15 + 8 = \\
 3 \times 3 - 5 = 9 \times 2 - 8 = \frac{1}{2} \text{ z } 18 - 6 = \frac{1}{2} \text{ ze } 14 - 5 =
 \end{array}$$



$19 \times 1 = \quad 1 \vee 19 = \quad \frac{1}{19} z 19 =$

$\begin{array}{|c|c|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} \cdot \quad 9 \times 2 + 1 = \quad 2 \vee 19 =$

$\begin{array}{|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} \cdot \quad 6 \times 3 + 1 = \quad 3 \vee 19 =$

$\begin{array}{|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} \quad 4 \times 4 + 3 = \quad 4 \vee 19 =$

$\begin{array}{|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} \quad 3 \times 5 + 4 = \quad 5 \vee 19 =$

$\begin{array}{|c|c|c|} \hline \cdot & \cdot & \cdot \\ \hline \end{array} \cdot \quad 3 \times 6 + 1 = \quad 6 \vee 19 =$

$\begin{array}{|c|c|c|} \hline \cdot & \cdot & \cdot \\ \hline \end{array} \quad 2 \times 7 + 5 = \quad 7 \vee 19 =$

$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} \quad 2 \times 8 + 3 = \quad 8 \vee 19 =$

$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} \cdot \quad 2 \times 9 + 1 = \quad 9 \vee 19 =$

$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} \quad 10 + 9 = \quad 19 - 9 = \quad 19 = 10 + .$

$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} \quad 9 + 10 = \quad 19 - 10 = \quad 19 = 9 + .$

$1 \times 10 + 9 = \quad 10 \vee 19 =$

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

$$\begin{array}{l}
 16-3= \\
 13-2= \\
 19-3= \\
 17-2= \\
 15-4= \\
 19-2= \\
 18-6= \\
 17-5= \\
 14-1= \\
 16-5=
 \end{array}
 \begin{array}{l}
 19-4= \\
 17-3= \\
 14-2= \\
 16-1= \\
 18-5= \\
 12-2= \\
 15-3= \\
 19-6= \\
 16-2= \\
 18-4=
 \end{array}
 \begin{array}{l}
 16-4= \\
 14-3= \\
 15-1= \\
 19-5= \\
 17-4= \\
 19-7= \\
 18-3= \\
 17-6= \\
 15-2= \\
 19-8=
 \end{array}
 \begin{array}{l}
 11-2= \\
 15-6= \\
 14-5= \\
 16-8= \\
 18-9= \\
 11-4= \\
 12-3= \\
 15-7= \\
 11-6= \\
 13-5=
 \end{array}
 \begin{array}{l}
 12-6= \\
 13-7= \\
 15-8= \\
 11-9= \\
 16-7= \\
 14-8= \\
 17-9= \\
 15-9= \\
 11-5= \\
 14-7=
 \end{array}$$

$$\begin{array}{l}
 4+8+7= \\
 16-4-5= \\
 7+9-8= \\
 18-5+6=
 \end{array}
 \begin{array}{l}
 8+3+4+2= \\
 9+2+3+5= \\
 19-5-3-8= \\
 17-2-5-6=
 \end{array}
 \begin{array}{l}
 7+5+6-9= \\
 19-8+4-7= \\
 9+7-5-8= \\
 16-5-6+9=
 \end{array}$$

$$\begin{array}{l}
 2 \times 2 = \\
 3 \times 3 = \\
 4 \times 4 = \\
 5 \times 2 =
 \end{array}
 \begin{array}{l}
 6 \times 3 = \\
 7 \times 2 = \\
 5 \times 3 = \\
 9 \times 2 =
 \end{array}
 \begin{array}{l}
 2 \times 7 = \\
 3 \times 6 = \\
 4 \times 3 = \\
 2 \times 5 =
 \end{array}
 \begin{array}{l}
 8 \times 2 = \\
 2 \times 9 = \\
 6 \times 2 = \\
 2 \times 4 =
 \end{array}
 \begin{array}{l}
 6 = 2 \times . \\
 15 = 3 \times . \\
 12 = . \times 4 \\
 16 = . \times 8
 \end{array}$$

$$\begin{array}{l}
 2 \vee 16 = \\
 2 \vee 10 = \\
 2 \vee e 4 = \\
 2 \vee 19 =
 \end{array}
 \begin{array}{l}
 3 \vee e 12 = \\
 3 \vee 9 = \\
 3 \vee 18 = \\
 3 \vee 19 =
 \end{array}
 \begin{array}{l}
 4 \vee 16 = \\
 4 \vee 8 = \\
 4 \vee e 12 = \\
 4 \vee 19 =
 \end{array}
 \begin{array}{l}
 5 \vee 15 = \\
 5 \vee 19 = \\
 6 \vee 18 = \\
 6 \vee 19 =
 \end{array}
 \begin{array}{l}
 7 \vee 10 = \\
 8 \vee 16 = \\
 8 \vee 19 = \\
 9 \vee 18 =
 \end{array}$$

$$\begin{array}{l}
 \frac{1}{5} z 15 = \\
 \frac{1}{4} z e 16 = \\
 \frac{1}{4} z 9 = \\
 \frac{1}{8} z e 4 =
 \end{array}
 \begin{array}{l}
 \frac{1}{2} z 8 = \\
 \frac{1}{6} z e 12 = \\
 \frac{1}{2} z 18 = \\
 \frac{1}{8} z e 16 =
 \end{array}
 \begin{array}{l}
 \frac{1}{9} z 18 = \\
 \frac{1}{5} z 15 = \\
 \frac{1}{7} z e 14 = \\
 \frac{1}{6} z 18 =
 \end{array}
 \begin{array}{l}
 \frac{1}{2} z 10 = \\
 \frac{1}{4} z e 12 = \\
 \frac{1}{8} z 18 = \\
 \frac{1}{2} z e 14 =
 \end{array}
 \begin{array}{l}
 \frac{1}{9} z e 12 = \\
 \frac{1}{2} z e 6 = \\
 \frac{1}{5} z 10 = \\
 \frac{1}{2} z e 16 =
 \end{array}$$

$$\begin{array}{l}
 2 \times 4 + 9 = \\
 4 \times 3 + 7 = \\
 2 \times 7 + 3 = \\
 3 \times 3 + 8 =
 \end{array}
 \begin{array}{l}
 9 \times 2 - 7 = \\
 5 \times 3 - 8 = \\
 3 \times 6 - 5 = \\
 4 \times 4 - 9 =
 \end{array}
 \begin{array}{l}
 \frac{1}{6} z e 16 + 8 = \\
 \frac{1}{5} z 15 + 9 = \\
 \frac{1}{6} z 18 + 5 = \\
 \frac{1}{8} z e 12 + 6 =
 \end{array}
 \begin{array}{l}
 \frac{1}{2} z 18 - 7 = \\
 \frac{1}{4} z e 16 - 2 = \\
 \frac{1}{8} z 15 - 4 = \\
 \frac{1}{2} z e 14 - 5 =
 \end{array}$$



$20 \times 1 = \quad 1 \text{ ve } 20 = \quad \frac{1}{20} \text{ ze } 20 =$

$\begin{array}{|c|c|c|c|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} : 10 \times 2 = \quad 2 \text{ ve } 20 = \quad \frac{1}{10} \text{ ze } 20 =$

$\begin{array}{|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} : 6 \times 3 + 2 = \quad 3 \text{ ve } 20 =$

$\begin{array}{|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} : 5 \times 4 = \quad 4 \text{ ve } 20 = \quad \frac{1}{5} \text{ ze } 20 =$

$\begin{array}{|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} : 4 \times 5 = \quad 5 \text{ ve } 20 = \quad \frac{1}{4} \text{ ze } 20 =$

$\begin{array}{|c|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} : 3 \times 6 + 2 = \quad 6 \text{ ve } 20 =$

$\begin{array}{|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} : 2 \times 7 + 6 = \quad 7 \text{ ve } 20 =$

$\begin{array}{|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} : 2 \times 8 + 4 = \quad 8 \text{ ve } 20 =$

$\begin{array}{|c|c|c|c|c|} \hline \cdot & \cdot & \cdot & \cdot & \cdot \\ \hline \end{array} : 2 \times 9 + 2 = \quad 9 \text{ ve } 20 =$

$\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} : 10 + 10 = \quad 20 - 10 = \quad 20 = 10 + .$ 
 $\begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} : 2 \times 10 = \quad 10 \text{ ve } 20 = \quad \frac{1}{2} \text{ ze } 20 =$

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

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

3 + . = 8	4 + . = 10	8 + . = 11	6 + . = 15
5 + . = 7	7 + . = 10	5 + . = 12	8 + . = 16
2 + . = 9	5 + . = 10	9 + . = 15	5 + . = 14
4 + . = 6	2 + . = 10	3 + . = 12	9 + . = 17
1 + . = 5	6 + . = 10	7 + . = 14	4 + . = 13

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

8 - 6 =	10 - 7 =	16 - 8 =	10 - 9 =
12 - 6 =	15 - 7 =	11 - 8 =	13 - 9 =
15 - 6 =	8 - 7 =	14 - 8 =	16 - 9 =
7 - 6 =	13 - 7 =	17 - 8 =	11 - 9 =
10 - 6 =	16 - 7 =	13 - 8 =	18 - 9 =
14 - 6 =	9 - 7 =	9 - 8 =	15 - 9 =
9 - 6 =	11 - 7 =	12 - 8 =	12 - 9 =
13 - 6 =	14 - 7 =	10 - 8 =	17 - 9 =
11 - 6 =	12 - 7 =	15 - 8 =	14 - 9 =



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

$6+7+5=$	$19-7-8=$	$6+4+7+2=$
$4+8+7=$	$17-6-6=$	$5+2+8+5=$
$9+5+6=$	$20-5+4=$	$20-5-7-6=$
$3+8+9=$	$16-9+7=$	$18-3-6-9=$
$7+9+4=$	$13-8+6=$	$8+9-6+8=$
$5+6+7=$	$9+9-7=$	$19-9+8-6=$
$4+7+7=$	$5+8-6=$	$20-8-5+9=$
$8+6+4=$	$7+9-8=$	$9+7-4+8=$

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

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

2 v 6 =	3 v 15 =	4 ve 12 =	6 ve 12 =	8 v 8 =
2 v 10 =	3 v 6 =	4 ve 20 =	6 v 6 =	8 v 16 =
2 v 18 =	3 ve 12 =	4 v 8 =	6 v 18 =	8 ve 13 =
2 ve 4 =	3 ve 3 =	4 v 16 =	6 v 10 =	8 ve 20 =
2 ve 14 =	3 v 18 =	4 ve 13 =	6 v 15 =	9 v 9 =
2 ve 12 =	3 v 9 =	4 v 18 =	6 ve 20 =	9 v 18 =
2 ve 20 =	3 v 16 =	5 v 10 =	7 ve 14 =	9 v 10 =
2 v 8 =	3 v 5 =	5 ve 20 =	7 v 7 =	9 v 19 =
2 v 16 =	3 v 10 =	5 v 15 =	7 ve 12 =	10 v 10 =
2 ve 13 =	3 ve 20 =	5 ve 12 =	7 v 19 =	10 ve 20 =

$\frac{1}{2}$ ze 4 =	$\frac{1}{2}$ ze 20 =	$\frac{1}{3}$ ze 3 =	$\frac{1}{5}$ z 10 =	$\frac{1}{7}$ ze 7 =
$\frac{1}{2}$ ze 12 =	$\frac{1}{2}$ ze 14 =	$\frac{1}{3}$ ze 6 =	$\frac{1}{5}$ z 15 =	$\frac{1}{7}$ ze 14 =
$\frac{1}{2}$ z 18 =	$\frac{1}{2}$ ze 2 =	$\frac{1}{3}$ z 8 =	$\frac{1}{5}$ z 5 =	$\frac{1}{7}$ z 8 =
$\frac{1}{2}$ ze 6 =	$\frac{1}{3}$ ze 12 =	$\frac{1}{4}$ ze 20 =	$\frac{1}{5}$ ze 20 =	$\frac{1}{8}$ ze 16 =
$\frac{1}{2}$ z 10 =	$\frac{1}{3}$ z 18 =	$\frac{1}{4}$ ze 4 =	$\frac{1}{6}$ ze 12 =	$\frac{1}{9}$ z 18 =
$\frac{1}{2}$ ze 16 =	$\frac{1}{3}$ z 9 =	$\frac{1}{4}$ ze 16 =	$\frac{1}{6}$ ze 6 =	$\frac{1}{9}$ z 9 =
$\frac{1}{2}$ z 8 =	$\frac{1}{3}$ z 15 =	$\frac{1}{4}$ ze 12 =	$\frac{1}{6}$ z 18 =	$\frac{1}{10}$ ze 20 =

$\frac{1}{4}$ z 8 + 9 =	$\frac{1}{6}$ ze 12 + 7 =	$\frac{1}{9}$ z 18 + 8 =	$\frac{1}{10}$ ze 20 + 6 =
$\frac{1}{4}$ z 18 - 8 =	$\frac{1}{4}$ ze 20 - 4 =	$\frac{1}{2}$ ze 14 - 6 =	$\frac{1}{2}$ z 8 - 3 =
$\frac{1}{2}$ z 10 + 7 =	$\frac{1}{7}$ ze 14 + 9 =	$\frac{1}{3}$ ze 6 + 7 =	$\frac{1}{9}$ z 9 + 9 =
$\frac{1}{5}$ z 15 - 3 =	$\frac{1}{3}$ z 18 - 5 =	$\frac{1}{5}$ ze 20 - 4 =	$\frac{1}{3}$ ze 12 - 2 =
$\frac{1}{8}$ ze 16 + 5 =	$\frac{1}{5}$ z 15 + 6 =	$\frac{1}{2}$ ze 4 + 5 =	$\frac{1}{6}$ z 18 + 7 =
$\frac{1}{2}$ ze 20 - 6 =	$\frac{1}{2}$ ze 16 - 3 =	$\frac{1}{4}$ ze 16 - 2 =	$\frac{1}{2}$ z 10 - 5 =

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