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Erstes

Rechenbuch für Volksschulen.



Von

Dr. Fr. Ritter v. Močnik.



Das Rechnen im Zahlenraume bis 20.



J. GIONTINI

zwölfte Auflage.

Preis, broschirt, 10 Kreuzer.

Wien.

Im kaiserlich-königlichen Schulbücher-Verlage.

1879.

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Die in einem k. k. Schulbücher-Verlage herausgegebenen Schulbücher dürfen nicht um höhere als die auf dem Titelblatte angegebenen Preise verkauft werden.

Das Recht der Übersetzung wird vorbehalten.

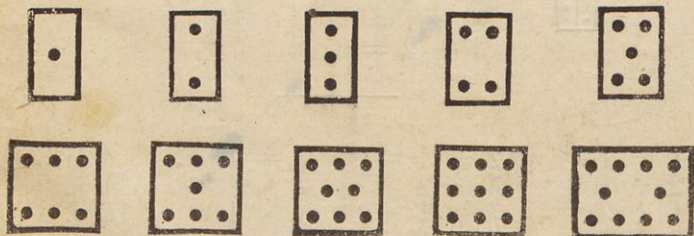
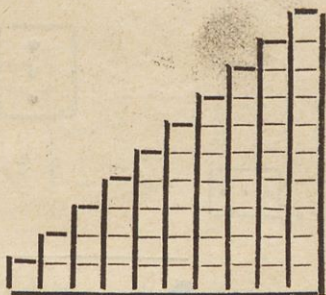
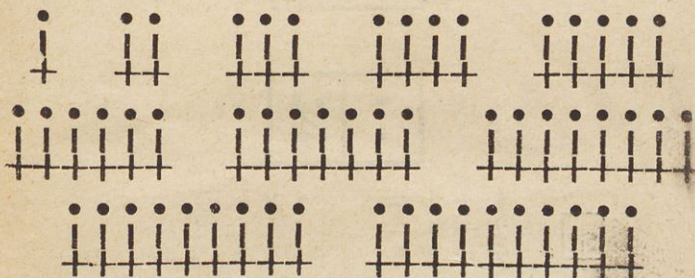
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F2C. 1122/1953

Erster Abschnitt.

Zahlenraum von e i n s bis z e h n.



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$$1 + 1 + 1 + 1 =$$

$$\begin{array}{l} 4 \times 1 = \\ 1 \text{ in } 4 = \\ \frac{1}{4} \text{ v. } 4 = \end{array}$$



$$\begin{array}{l} 2 + 2 = \\ 4 - 2 = \\ 4 = 2 + \end{array}$$

$$\begin{array}{l} 2 \times 2 = \\ 2 \text{ in } 4 = \\ \frac{1}{2} \text{ v. } 4 = \end{array}$$



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

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

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

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

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

$$\begin{array}{l} 1 - 1 = 0 \\ 2 - 2 = \\ 3 - 3 = \\ 4 - 4 = \end{array}$$

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

$$\begin{array}{l} 2 \text{ in } 4 = \\ 1 \text{ in } 3 = \\ 1 \text{ in } 4 = \\ 2 \text{ in } 3 = \end{array}$$

$$\begin{array}{l} \frac{1}{2} \text{ v. } 2 = \\ \frac{1}{2} \text{ v. } 4 = \\ \frac{1}{3} \text{ v. } 3 = \\ \frac{1}{4} \text{ v. } 4 = \end{array}$$

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

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

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



$$5 \times 1 = \frac{1+1+1+1+1}{1} = 1 \text{ in } 5 = \frac{1}{5} \text{ v. } 5 =$$



$$\frac{2+2+1}{2 \times 2+1} = 2 \text{ in } 5 =$$



$$\begin{array}{l} 3+2= \\ 2+3= \\ 5-2= \\ 5-3= \end{array} \quad \left| \quad \begin{array}{l} 5=3+. \\ 5=2+. \\ 1 \times 3+2= \\ 3 \text{ in } 5= \end{array}$$



$$\begin{array}{l} 4+1= \\ 1+4= \\ 5-1= \\ 5-4= \end{array} \quad \left| \quad \begin{array}{l} 5=4+. \\ 5=1+. \\ 1 \times 4+1= \\ 4 \text{ in } 5= \end{array}$$

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

3 × 1 =	1 × 5 =	1 in 5 =	1/2 v. 2 =
2 × 2 =	1 × 4 =	2 in 4 =	1/4 v. 4 =
5 × 1 =	1 × 2 =	2 in 5 =	1/2 v. 4 =
4 × 1 =	1 × 1 =	4 in 5 =	1/5 v. 5 =

3 = 2 + .	1 + . = 3	2 + 1 + 2 =
4 = 3 + .	4 + . = 5	5 - 1 - 2 =
5 = 2 + .	3 + . = 5	2 × 2 - 3 =
4 = 2 + .	2 + . = 5	1/5 v. 5 + 4 =



$$1 + 1 + 1 + 1 + 1 + 1 =$$

$$6 \times 1 = \quad | \quad 1 \text{ in } 6 = \quad | \quad \frac{1}{6} \text{ v. } 6 =$$



$$2 + 2 + 2 = \quad | \quad 2 \text{ in } 6 =$$

$$3 \times 2 = \quad | \quad \frac{1}{3} \text{ v. } 6 =$$



$$3 + 3 = \quad | \quad 2 \times 3 =$$

$$6 - 3 = \quad | \quad 3 \text{ in } 6 =$$

$$6 = 3 + \quad | \quad \frac{1}{2} \text{ v. } 6 =$$



$$4 + 2 = \quad | \quad 6 = 4 + \quad .$$

$$2 + 4 = \quad | \quad 6 = 2 + \quad .$$

$$6 - 2 = \quad | \quad 1 \times 4 + 2 =$$

$$6 - 4 = \quad | \quad 4 \text{ in } 6 =$$



$$5 + 1 = \quad | \quad 6 = 5 + \quad .$$

$$1 + 5 = \quad | \quad 6 = 1 + \quad .$$

$$6 - 1 = \quad | \quad 1 \times 5 + 1 =$$

$$6 - 5 = \quad | \quad 5 \text{ in } 6 =$$

$$2 + 1 = \quad | \quad 4 + 1 = \quad | \quad 3 + 2 = \quad | \quad 3 + 3 =$$

$$2 - 1 = \quad | \quad 4 - 1 = \quad | \quad 3 - 2 = \quad | \quad 3 - 3 =$$

$$3 + 1 = \quad | \quad 5 + 1 = \quad | \quad 4 + 2 = \quad | \quad 1 + 3 =$$

$$3 - 1 = \quad | \quad 5 - 1 = \quad | \quad 4 - 2 = \quad | \quad 6 - 3 =$$

$$1 + 4 = \quad | \quad 1 + 5 = \quad | \quad 6 = 4 + \quad . \quad | \quad 2 + \quad . = 3$$

$$6 - 4 = \quad | \quad 6 - 5 = \quad | \quad 4 = 1 + \quad . \quad | \quad 1 + \quad . = 6$$

$$2 + 4 = \quad | \quad 1 + 1 = \quad | \quad 5 = 3 + \quad . \quad | \quad 4 + \quad . = 5$$

$$5 - 4 = \quad | \quad 6 - 6 = \quad | \quad 6 = 2 + \quad . \quad | \quad 2 + \quad . = 6$$

$$3 \times 2 = \quad | \quad 2 \times \quad . = 4 \quad | \quad 1 \text{ in } 6 = \quad | \quad \frac{1}{2} \text{ v. } 6 =$$

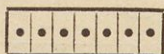
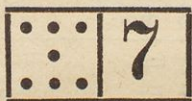
$$2 \times 3 = \quad | \quad 2 \times \quad . = 6 \quad | \quad 2 \text{ in } 4 = \quad | \quad \frac{1}{2} \text{ v. } 4 =$$

$$2 \times 2 = \quad | \quad \quad . \times 2 = 6 \quad | \quad 2 \text{ in } 6 = \quad | \quad \frac{1}{3} \text{ v. } 6 =$$

$$6 \times 1 = \quad | \quad \quad . \times 1 = 5 \quad | \quad 3 \text{ in } 6 = \quad | \quad \frac{1}{6} \text{ v. } 6 =$$

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

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



$$7 \times 1 = \overset{1+1+1+1+1+1+1}{1 \text{ in } 7} = \frac{1}{7} \text{ v. } 7 =$$



$$2 + 2 + 2 + 1 =$$

$$3 \times 2 + 1 =$$

$$2 \text{ in } 7 =$$



$$3 + 3 + 1 =$$

$$2 \times 3 + 1 =$$

$$3 \text{ in } 7 =$$



$$4 + 3 =$$

$$3 + 4 =$$

$$7 - 3 =$$

$$7 - 4 =$$

$$7 = 4 + \cdot$$

$$7 = 3 + \cdot$$

$$1 \times 4 + 3 =$$

$$4 \text{ in } 7 =$$



$$5 + 2 =$$

$$2 + 5 =$$

$$7 - 2 =$$

$$7 - 5 =$$

$$7 = 5 + \cdot$$

$$7 = 2 + \cdot$$

$$1 \times 5 + 2 =$$

$$5 \text{ in } 7 =$$



$$6 + 1 =$$

$$1 + 6 =$$

$$7 - 1 =$$

$$7 - 6 =$$

$$7 = 6 + \cdot$$

$$7 = 1 + \cdot$$

$$1 \times 6 + 1 =$$

$$6 \text{ in } 7 =$$

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

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

1 × 2 =	1 × 4 =	6 = 3 ×	. × 2 = 4
2 × 2 =	1 × 5 =	4 = 2 ×	. × 1 = 5
3 × 2 =	1 × 6 =	2 = 1 ×	. × 3 = 6
1 × 3 =	1 × 7 =	6 = 2 ×	. × 7 = 7
2 × 3 =	7 × 1 =	7 = 1 ×	. × 2 = 6

2 in 2 =	3 in 3 =	1 in 2 =	1/2 v. 4 =
2 in 3 =	3 in 6 =	1 in 4 =	1/2 v. 6 =
2 in 4 =	4 in 7 =	3 in 5 =	1/3 v. 3 =
2 in 6 =	5 in 5 =	4 in 6 =	1/3 v. 6 =
2 in 7 =	6 in 7 =	5 in 7 =	1/4 v. 4 =

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

1 × 5 + 2 =	1 × 6 - 4 =	1/2 v. 4 + 4 =
2 × 3 - 3 =	4 × 1 + 3 =	1/2 v. 6 - 3 =
3 × 2 + 1 =	1 × 1 + 5 =	1/3 v. 6 + 5 =
7 × 1 - 4 =	7 × 1 - 7 =	1/4 v. 4 + 4 =



$$8 \times 1 = \begin{array}{c} 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 = \\ | \quad 1 \text{ in } 8 = \quad | \quad \frac{1}{8} \text{ v. } 8 = \end{array}$$



$$\begin{array}{c} 2 + 2 + 2 + 2 = \\ 4 \times 2 = \end{array} \quad \left| \quad \begin{array}{c} 2 \text{ in } 8 = \\ \frac{1}{4} \text{ v. } 8 = \end{array} \right.$$



$$\begin{array}{c} 3 + 3 + 2 = \\ 2 \times 3 + 2 = \end{array} \quad \left| \quad 2 \text{ in } 8 \right.$$



$$\begin{array}{c} 4 + 4 = \\ 8 - 4 = \\ 8 = 4 + . \end{array} \quad \left| \quad \begin{array}{c} 2 \times 4 = \\ 4 \text{ in } 8 = \\ \frac{1}{2} \text{ v. } 8 = \end{array} \right.$$



$$\begin{array}{c} 5 + 3 = \\ 3 + 5 = \\ 8 - 3 = \\ 8 - 5 = \end{array} \quad \left| \quad \begin{array}{c} 8 = 5 + . \\ 8 = 3 + . \\ 1 \times 5 + 3 = \\ 5 \text{ in } 8 = \end{array} \right.$$



$$\begin{array}{c} 6 + 2 = \\ 2 + 6 = \\ 8 - 2 = \\ 8 - 6 = \end{array} \quad \left| \quad \begin{array}{c} 8 = 6 + . \\ 8 = 2 + . \\ 1 \times 6 + 2 = \\ 6 \text{ in } 8 = \end{array} \right.$$



$$\begin{array}{c} 7 + 1 = \\ 1 + 7 = \\ 8 - 1 = \\ 8 - 7 = \end{array} \quad \left| \quad \begin{array}{c} 8 = 7 + . \\ 8 = 1 + . \\ 1 \times 7 + 1 = \\ 7 \text{ in } 8 = \end{array} \right.$$

$$\begin{array}{c} 1 + 1 = \\ 3 + 1 = \\ 7 + 1 = \\ 5 + 1 = \end{array}$$

$$\begin{array}{c} 2 + 2 = \\ 6 + 2 = \\ 5 + 2 = \\ 4 + 2 = \end{array}$$

$$\begin{array}{c} 3 + 3 = \\ 2 + 3 = \\ 3 + 4 = \\ 4 + 4 = \end{array}$$

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

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

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

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

2 in 8 =	5 in 8 =	1/2 v. 4 =	1/2 v. 6 =
2 in 5 =	3 in 6 =	1/4 v. 8 =	1/2 v. 8 =
3 in 7 =	4 in 8 =	1/3 v. 6 =	1/6 v. 6 =
2 in 6 =	2 in 4 =	1/5 v. 5 =	1/8 v. 8 =

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

2 × 2 + 4 =	6 × 1 - 1 =	1/2 v. 4 + 5 =
1 × 5 + 2 =	2 × 4 - 3 =	1/2 v. 8 - 3 =
3 × 2 + 1 =	1 × 7 - 5 =	1/3 v. 6 + 6 =
1 × 1 + 7 =	2 × 3 - 4 =	1/4 v. 8 - 1 =
4 × 1 + 3 =	4 × 2 - 7 =	1/5 v. 5 + 7 =



$$1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 =$$

$$9 \times 1 = \quad | \quad 1 \text{ in } 9 = \quad | \quad \frac{1}{9} \text{ v. } 9 =$$



$$2 + 2 + 2 + 2 + 1 = \quad | \quad 2 \text{ in } 9 =$$

$$4 \times 2 + 1 =$$



$$3 + 3 + 3 = \quad | \quad 3 \text{ in } 9 =$$

$$3 \times 3 = \quad | \quad \frac{1}{3} \text{ v. } 9 =$$



$$4 + 4 + 1 = \quad | \quad 4 \text{ in } 9 =$$

$$2 \times 4 + 1 =$$



$$5 + 4 = \quad | \quad 9 = 5 + \quad .$$

$$4 + 5 = \quad | \quad 9 = 4 + \quad .$$

$$9 - 4 = \quad | \quad 1 \times 5 + 4 =$$

$$9 - 5 = \quad | \quad 5 \text{ in } 9 =$$



$$6 + 3 = \quad | \quad 9 = 6 + \quad .$$

$$3 + 6 = \quad | \quad 9 = 3 + \quad .$$

$$9 - 3 = \quad | \quad 1 \times 6 + 3 =$$

$$9 - 6 = \quad | \quad 6 \text{ in } 9 =$$



$$7 + 2 = \quad | \quad 9 = 7 + \quad .$$

$$2 + 7 = \quad | \quad 9 = 2 + \quad .$$

$$9 - 2 = \quad | \quad 1 \times 7 + 2 =$$

$$9 - 7 = \quad | \quad 7 \text{ in } 9 =$$



$$8 + 1 = \quad | \quad 9 = 8 + \quad .$$

$$1 + 8 = \quad | \quad 9 = 1 + \quad .$$

$$9 - 1 = \quad | \quad 1 \times 8 + 1 =$$

$$9 - 8 = \quad | \quad 8 \text{ in } 9 =$$

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

$$\begin{array}{l} 6 + 2 = \\ 5 + 1 = \\ 6 + 3 = \\ 7 + 2 = \\ 3 + 3 = \\ 1 + 8 = \\ 3 + 5 = \\ 2 + 3 = \end{array}$$

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

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

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

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

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

$$\begin{array}{l} 6 = 5 + . \\ 4 = 1 + . \\ 7 = 4 + . \\ 9 = 6 + . \\ 5 = 3 + . \\ 8 = 4 + . \end{array}$$

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

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

$$\begin{array}{l} 2 \times 1 = \\ 1 \times 5 = \\ 2 \times 4 = \\ 3 \times 3 = \\ 4 \times 2 = \\ 6 \times 1 = \\ 1 \times 8 = \\ 3 \times 1 = \end{array}$$

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

$$\begin{array}{l} 2 \text{ in } 6 = \\ 2 \text{ in } 4 = \\ 3 \text{ in } 6 = \\ 2 \text{ in } 8 = \\ 3 \text{ in } 9 = \\ 4 \text{ in } 8 = \\ 3 \text{ in } 7 = \\ 5 \text{ in } 9 = \end{array}$$

$$\begin{array}{l} \frac{1}{4} \text{ v. } 4 = \\ \frac{1}{2} \text{ v. } 8 = \\ \frac{1}{5} \text{ v. } 5 = \\ \frac{1}{3} \text{ v. } 6 = \\ \frac{1}{2} \text{ v. } 4 = \\ \frac{1}{4} \text{ v. } 8 = \\ \frac{1}{3} \text{ v. } 9 = \\ \frac{1}{2} \text{ v. } 6 = \end{array}$$

$$\begin{array}{l} 8 = 2 \times . \\ 6 = 3 \times . \\ 9 = 3 \times . \\ 6 = 2 \times . \end{array}$$

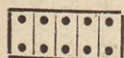
$$\begin{array}{l} . \times 2 = 4 \\ . \times 4 = 8 \\ . \times 2 = 6 \\ . \times 1 = 9 \end{array}$$

$$\begin{array}{l} 2 \times 3 + 1 = \\ 3 \times 3 - 7 = \\ \frac{1}{2} \text{ v. } 8 + 5 = \\ \frac{1}{3} \text{ v. } 9 - 2 = \end{array}$$



$$1+1+1+1+1+1+1+1+1+1 =$$

$$10 \times 1 = \quad | \quad 1 \text{ in } 10 = \quad | \quad \frac{1}{10} \text{ v. } 10 =$$



$$2+2+2+2+2 =$$

$$5 \times 2 =$$

$$2 \text{ in } 10 =$$

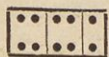
$$\frac{1}{5} \text{ von } 10 =$$



$$3+3+3+1 =$$

$$3 \times 3 + 1 =$$

$$3 \text{ in } 10 =$$



$$4+4+2 =$$

$$2 \times 4 + 2 =$$

$$4 \text{ in } 10 =$$



$$5+5 =$$

$$10 - 5 =$$

$$10 = 5 +$$

$$2 \times 5 =$$

$$5 \text{ in } 10 =$$

$$\frac{1}{2} \text{ v. } 10 =$$



$$6+4 =$$

$$4+6 =$$

$$10 - 4 =$$

$$10 - 6 =$$

$$10 = 6 +$$

$$10 = 4 +$$

$$1 \times 6 + 4 =$$

$$6 \text{ in } 10 =$$



$$7+3 =$$

$$3+7 =$$

$$10 - 3 =$$

$$10 - 7 =$$

$$10 = 7 +$$

$$10 = 3 +$$

$$1 \times 7 + 3 =$$

$$7 \text{ in } 10 =$$



$$8+2 =$$

$$2+8 =$$

$$10 - 2 =$$

$$10 - 8 =$$

$$10 = 8 +$$

$$10 = 2 +$$

$$1 \times 8 + 2 =$$

$$8 \text{ in } 10 =$$



$$9+1 =$$

$$1+9 =$$

$$10 - 1 =$$

$$10 - 9 =$$

$$10 = 9 +$$

$$10 = 1 +$$

$$1 \times 9 + 1 =$$

$$9 \text{ in } 10 =$$

$$\begin{array}{r}
 6 + 1 = \\
 2 + 1 = \\
 7 + 1 = \\
 8 + 1 = \\
 4 + 1 = \\
 9 + 1 = \\
 3 + 1 = \\
 5 + 1 = \\
 3 + 2 = \\
 7 + 2 =
 \end{array}$$

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

$$\begin{array}{r}
 4 + 4 = \\
 2 + 4 = \\
 6 + 4 = \\
 5 + 4 = \\
 3 + 4 = \\
 2 + 5 = \\
 4 + 5 = \\
 1 + 5 = \\
 5 + 5 =
 \end{array}$$

$$\begin{array}{r}
 2 + 6 = \\
 4 + 6 = \\
 1 + 6 = \\
 3 + 6 = \\
 2 + 7 = \\
 1 + 7 = \\
 3 + 7 = \\
 1 + 8 = \\
 2 + 8 = \\
 1 + 9 =
 \end{array}$$

$$\begin{array}{r}
 8 - 1 = \\
 5 - 1 = \\
 2 - 1 = \\
 4 - 1 = \\
 9 - 1 = \\
 6 - 1 = \\
 10 - 1 = \\
 7 - 1 = \\
 6 - 2 = \\
 9 - 2 =
 \end{array}$$

$$\begin{array}{r}
 5 - 2 = \\
 8 - 2 = \\
 3 - 2 = \\
 10 - 2 = \\
 7 - 2 = \\
 4 - 3 = \\
 10 - 3 = \\
 9 - 3 = \\
 5 - 3 = \\
 8 - 3 =
 \end{array}$$

$$\begin{array}{r}
 6 - 3 = \\
 8 - 4 = \\
 5 - 4 = \\
 9 - 4 = \\
 6 - 4 = \\
 7 - 4 = \\
 10 - 4 = \\
 9 - 5 = \\
 7 - 5 = \\
 10 - 5 =
 \end{array}$$

$$\begin{array}{r}
 8 - 5 = \\
 9 - 6 = \\
 10 - 6 = \\
 8 - 6 = \\
 7 - 6 = \\
 9 - 7 = \\
 8 - 7 = \\
 10 - 8 = \\
 9 - 8 = \\
 10 - 9 =
 \end{array}$$

$$\begin{array}{r}
 7 = 5 + . \\
 9 = 7 + . \\
 6 = 2 + . \\
 5 = 3 + .
 \end{array}$$

$$\begin{array}{r}
 6 = 1 + . \\
 10 = 3 + . \\
 2 + . = 7 \\
 3 + . = 9
 \end{array}$$

$$\begin{array}{r}
 4 + . = 6 \\
 5 + . = 8 \\
 3 + . = 7 \\
 7 + . = 10
 \end{array}$$

$$\begin{array}{r}
 2 + 1 + 6 = \\
 3 + 2 + 5 = \\
 2 + 4 + 1 = \\
 4 + 5 + 1 = \\
 4 + 3 + 2 = \\
 3 + 6 + 1 = \\
 4 + 1 + 3 = \\
 1 + 6 + 2 =
 \end{array}$$

$$\begin{array}{r}
 2 + 5 + 2 = \\
 7 + 2 + 1 = \\
 2 + 3 + 3 = \\
 5 + 3 + 2 = \\
 2 + 3 + 4 = \\
 2 + 2 + 2 = \\
 1 + 5 + 3 = \\
 3 + 3 + 3 =
 \end{array}$$

$$\begin{array}{r}
 10 - 2 - 6 = \\
 10 - 1 - 7 = \\
 8 - 3 - 4 = \\
 9 - 2 - 5 = \\
 10 - 6 + 3 = \\
 8 - 2 + 4 = \\
 2 + 8 - 5 = \\
 4 + 5 - 6 =
 \end{array}$$

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

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

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

$\frac{1}{2} \text{ v. } 10 =$	$\frac{1}{2} \text{ v. } 6 =$	$\frac{1}{4} \text{ v. } 8 =$	$\frac{1}{8} \text{ v. } 6 =$
$\frac{1}{2} \text{ v. } 4 =$	$\frac{1}{3} \text{ v. } 9 =$	$\frac{1}{4} \text{ v. } 4 =$	$\frac{1}{8} \text{ v. } 8 =$
$\frac{1}{2} \text{ v. } 8 =$	$\frac{1}{3} \text{ v. } 3 =$	$\frac{1}{5} \text{ v. } 5 =$	$\frac{1}{9} \text{ v. } 9 =$
$\frac{1}{2} \text{ v. } 2 =$	$\frac{1}{3} \text{ v. } 6 =$	$\frac{1}{5} \text{ v. } 10 =$	$\frac{1}{10} \text{ v. } 10 =$

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

Zweiter Abschnitt.

Zahlenraum von zehn bis zwanzig.



$$10 + 1 = 11$$



$$10 + 2 = 12$$



$$10 + 3 = 13$$



$$10 + 4 = 14$$



$$10 + 5 = 15$$



$$10 + 6 = 16$$



$$10 + 7 = 17$$



$$10 + 8 = 18$$



$$10 + 9 = 19$$



$$10 + 10 = 20$$



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



$$5 \times 2 + 1 = \quad | \quad 2 \text{ in } 11 =$$



$$3 \times 3 + 2 = \quad | \quad 3 \text{ in } 11 =$$



$$2 \times 4 + 3 = \quad | \quad 4 \text{ in } 11 =$$



$$2 \times 5 + 1 = \quad | \quad 5 \text{ in } 11 =$$



$$6 + 5 = \quad | \quad 11 - 5 = \quad | \quad 11 = 6 +$$

$$5 + 6 = \quad | \quad 11 - 6 = \quad | \quad 11 = 5 +$$

$$1 \times 6 + 5 = \quad | \quad 6 \text{ in } 11 =$$



$$7 + 4 = \quad | \quad 11 - 4 = \quad | \quad 11 = 7 +$$

$$4 + 7 = \quad | \quad 11 - 7 = \quad | \quad 11 = 4 +$$

$$1 \times 7 + 4 = \quad | \quad 7 \text{ in } 11 =$$



$$8 + 3 = \quad | \quad 11 - 3 = \quad | \quad 11 = 8 +$$

$$3 + 8 = \quad | \quad 11 - 8 = \quad | \quad 11 = 3 +$$

$$1 \times 8 + 3 = \quad | \quad 8 \text{ in } 11 =$$



$$9 + 2 = \quad | \quad 11 - 2 = \quad | \quad 11 = 9 +$$

$$2 + 9 = \quad | \quad 11 - 9 = \quad | \quad 11 = 2 +$$

$$1 \times 9 + 2 = \quad | \quad 9 \text{ in } 11 =$$



$$10 + 1 = \quad | \quad 11 - 1 = \quad | \quad 11 = 10 +$$

$$1 + 10 = \quad | \quad 11 - 10 = \quad | \quad 11 = 1 +$$

$$1 \times 10 + 1 = \quad | \quad 10 \text{ in } 11 =$$

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

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

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

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

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

$2 \text{ in } 10 =$	$4 \text{ in } 4 =$	$2 \text{ in } 5 =$	$4 \text{ in } 6 =$	$7 \text{ in } 10 =$
$2 \text{ in } 6 =$	$4 \text{ in } 8 =$	$2 \text{ in } 9 =$	$4 \text{ in } 11 =$	$8 \text{ in } 9 =$
$2 \text{ in } 8 =$	$5 \text{ in } 10 =$	$2 \text{ in } 11 =$	$5 \text{ in } 7 =$	$8 \text{ in } 11 =$
$3 \text{ in } 9 =$	$6 \text{ in } 6 =$	$3 \text{ in } 8 =$	$5 \text{ in } 11 =$	$9 \text{ in } 10 =$
$3 \text{ in } 6 =$	$9 \text{ in } 9 =$	$3 \text{ in } 11 =$	$6 \text{ in } 11 =$	$9 \text{ in } 11 =$

$\frac{1}{2} \text{ v. } 6 =$	$\frac{1}{2} \text{ v. } 2 =$	$\frac{1}{4} \text{ v. } 8 =$	$\frac{1}{6} \text{ v. } 6 =$
$\frac{1}{2} \text{ v. } 10 =$	$\frac{1}{3} \text{ v. } 9 =$	$\frac{1}{4} \text{ v. } 4 =$	$\frac{1}{8} \text{ v. } 8 =$
$\frac{1}{2} \text{ v. } 4 =$	$\frac{1}{3} \text{ v. } 3 =$	$\frac{1}{5} \text{ v. } 5 =$	$\frac{1}{9} \text{ v. } 9 =$
$\frac{1}{2} \text{ v. } 8 =$	$\frac{1}{3} \text{ v. } 6 =$	$\frac{1}{5} \text{ v. } 10 =$	$\frac{1}{10} \text{ v. } 10 =$



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



$$6 \times 2 = \quad | \quad 2 \text{ in } 12 = \quad | \quad \frac{1}{6} \text{ v. } 12 =$$



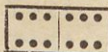
$$4 \times 3 = \quad | \quad 3 \text{ in } 12 = \quad | \quad \frac{1}{4} \text{ v. } 12 =$$



$$3 \times 4 = \quad | \quad 4 \text{ in } 12 = \quad | \quad \frac{1}{3} \text{ v. } 12 =$$



$$2 \times 5 + 2 = \quad | \quad 5 \text{ in } 12 =$$



$$6 + 6 = \quad | \quad 12 - 6 = \quad | \quad 12 = 6 +.$$

$$2 \times 6 = \quad | \quad 6 \text{ in } 12 = \quad | \quad \frac{1}{2} \text{ v. } 12 =$$



$$7 + 5 = \quad | \quad 12 - 5 = \quad | \quad 12 = 7 +.$$

$$5 + 7 = \quad | \quad 12 - 7 = \quad | \quad 12 = 5 +.$$

$$1 \times 7 + 5 = \quad | \quad 7 \text{ in } 12 =$$



$$8 + 4 = \quad | \quad 12 - 4 = \quad | \quad 12 = 8 +.$$

$$4 + 8 = \quad | \quad 12 - 8 = \quad | \quad 12 = 4 +.$$

$$1 \times 8 + 4 = \quad | \quad 8 \text{ in } 12 =$$



$$9 + 3 = \quad | \quad 12 - 3 = \quad | \quad 12 = 9 +.$$

$$3 + 9 = \quad | \quad 12 - 9 = \quad | \quad 12 = 3 +.$$

$$1 \times 9 + 3 = \quad | \quad 9 \text{ in } 12 =$$



$$10 + 2 = \quad | \quad 12 - 2 = \quad | \quad 12 = 10 +.$$

$$2 + 10 = \quad | \quad 12 - 10 = \quad | \quad 12 = 2 +.$$

$$1 \times 10 + 2 = \quad | \quad 10 \text{ in } 12 =$$

$$1 + 2 = \quad | \quad 6 + 2 = \quad | \quad 3 - 2 = \quad | \quad 8 - 2 =$$

$$2 + 2 = \quad | \quad 7 + 2 = \quad | \quad 4 - 2 = \quad | \quad 9 - 2 =$$

$$3 + 2 = \quad | \quad 8 + 2 = \quad | \quad 5 - 2 = \quad | \quad 10 - 2 =$$

$$4 + 2 = \quad | \quad 9 + 2 = \quad | \quad 6 - 2 = \quad | \quad 11 - 2 =$$

$$5 + 2 = \quad | \quad 10 + 2 = \quad | \quad 7 - 2 = \quad | \quad 12 - 2 =$$

$$3 + 2 = \quad | \quad 10 + 2 = \quad | \quad 2 + 2 = \quad | \quad 11 - 2 = \quad | \quad 8 - 2 =$$

$$1 + 2 = \quad | \quad 5 + 2 = \quad | \quad 7 + 2 = \quad | \quad 3 - 2 = \quad | \quad 12 - 2 =$$

$$9 + 2 = \quad | \quad 8 + 2 = \quad | \quad 9 - 2 = \quad | \quad 7 - 2 = \quad | \quad 6 - 2 =$$

$$4 + 2 = \quad | \quad 6 + 2 = \quad | \quad 5 - 2 = \quad | \quad 10 - 2 = \quad | \quad 4 - 2 =$$

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

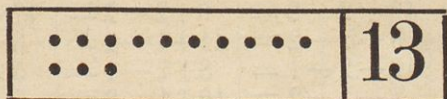
$9+1=$	$7+4=$	$4+8=$	$11-1=$	$12-2=$
$9+3=$	$6+4=$	$4+7=$	$11-3=$	$12-3=$
$9+2=$	$6+5=$	$3+7=$	$11-5=$	$12-6=$
$8+2=$	$6+6=$	$3+8=$	$11-7=$	$12-4=$
$8+3=$	$5+5=$	$3+9=$	$11-9=$	$12-7=$
$8+4=$	$5+6=$	$2+8=$	$11-4=$	$12-5=$
$7+3=$	$5+7=$	$2+9=$	$11-2=$	$12-9=$
$7+5=$	$4+6=$	$1+9=$	$11-8=$	$12-8=$

$3 \times 4 =$	$2 \times 2 =$	$2 \times 6 =$	$4 \times 3 =$	$6 = \cdot \times 2$
$5 \times 2 =$	$7 \times 1 =$	$3 \times 2 =$	$1 \times 6 =$	$12 = \cdot \times 3$
$2 \times 3 =$	$3 \times 3 =$	$8 \times 1 =$	$9 \times 1 =$	$8 = \cdot \times 2$
$6 \times 2 =$	$2 \times 5 =$	$4 \times 2 =$	$1 \times 10 =$	$10 = 5 \times \cdot$
$2 \times 4 =$	$1 \times 9 =$	$1 \times 7 =$	$3 \times 1 =$	$12 = 2 \times \cdot$

$2 \text{ in } 4 =$	$2 \text{ in } 8 =$	$2 \text{ in } 9 =$	$2 \text{ in } 10 =$	$2 \text{ in } 12 =$
$3 \text{ in } 4 =$	$3 \text{ in } 8 =$	$3 \text{ in } 9 =$	$3 \text{ in } 10 =$	$3 \text{ in } 12 =$
$2 \text{ in } 6 =$	$4 \text{ in } 8 =$	$5 \text{ in } 9 =$	$4 \text{ in } 10 =$	$4 \text{ in } 12 =$
$3 \text{ in } 6 =$	$5 \text{ in } 8 =$	$6 \text{ in } 9 =$	$5 \text{ in } 10 =$	$5 \text{ in } 12 =$
$5 \text{ in } 6 =$	$7 \text{ in } 8 =$	$8 \text{ in } 9 =$	$7 \text{ in } 10 =$	$6 \text{ in } 12 =$

$\frac{1}{2} \text{ v. } 6 =$	$\frac{1}{2} \text{ v. } 8 =$	$\frac{1}{9} \text{ v. } 9 =$	$\frac{1}{2} \text{ v. } 12 =$
$\frac{1}{3} \text{ v. } 6 =$	$\frac{1}{4} \text{ v. } 8 =$	$\frac{1}{2} \text{ v. } 10 =$	$\frac{1}{3} \text{ v. } 12 =$
$\frac{1}{6} \text{ v. } 6 =$	$\frac{1}{8} \text{ v. } 8 =$	$\frac{1}{5} \text{ v. } 10 =$	$\frac{1}{4} \text{ v. } 12 =$
$\frac{1}{7} \text{ v. } 7 =$	$\frac{1}{3} \text{ v. } 9 =$	$\frac{1}{10} \text{ v. } 10 =$	$\frac{1}{6} \text{ v. } 12 =$

$2 \times 5 + 2 =$	$5 \times 2 + 1 =$	$\frac{1}{4} \text{ v. } 8 + 9 =$
$6 \times 2 - 3 =$	$4 \times 3 - 5 =$	$\frac{1}{2} \text{ v. } 10 - 4 =$
$3 \times 3 + 3 =$	$3 \times 2 + 6 =$	$\frac{1}{6} \text{ v. } 12 + 5 =$
$3 \times 4 - 4 =$	$2 \times 6 - 7 =$	$\frac{1}{4} \text{ v. } 12 - 3 =$



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



$$6 \times 2 + 1 = \quad | \quad 2 \text{ in } 13 =$$



$$4 \times 3 + 1 = \quad | \quad 3 \text{ in } 13 =$$



$$3 \times 4 + 1 = \quad | \quad 4 \text{ in } 13 =$$



$$2 \times 5 + 3 = \quad | \quad 5 \text{ in } 13 =$$



$$2 \times 6 + 1 = \quad | \quad 6 \text{ in } 13 =$$

$$7 + 6 = \quad | \quad 13 - 6 = \quad | \quad 13 = 7 +$$

$$6 + 7 = \quad | \quad 13 - 7 = \quad | \quad 13 = 6 +$$

$$1 \times 7 + 6 = \quad | \quad 7 \text{ in } 13 =$$



$$8 + 5 = \quad | \quad 13 - 5 = \quad | \quad 13 = 8 +$$

$$5 + 8 = \quad | \quad 13 - 8 = \quad | \quad 13 = 5 +$$

$$1 \times 8 + 5 = \quad | \quad 8 \text{ in } 13 =$$



$$9 + 4 = \quad | \quad 13 - 4 = \quad | \quad 13 = 9 +$$

$$4 + 9 = \quad | \quad 13 - 9 = \quad | \quad 13 = 4 +$$

$$1 \times 9 + 4 = \quad | \quad 9 \text{ in } 13 =$$



$$10 + 3 = \quad | \quad 13 - 3 = \quad | \quad 13 = 10 +$$

$$3 + 10 = \quad | \quad 13 - 10 = \quad | \quad 13 = 3 +$$

$$1 \times 10 + 3 = \quad | \quad 10 \text{ in } 13 =$$

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

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

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

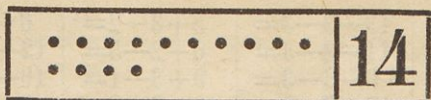
$9+1=$	$7+3=$	$5+5=$	$11-1=$	$12-6=$
$9+4=$	$7+5=$	$5+8=$	$11-6=$	$13-3=$
$9+2=$	$7+4=$	$5+6=$	$11-4=$	$13-5=$
$9+3=$	$7+6=$	$4+6=$	$11-7=$	$13-7=$
$8+2=$	$6+4=$	$4+9=$	$12-2=$	$13-9=$
$8+4=$	$6+7=$	$4+7=$	$12-5=$	$13-8=$
$8+3=$	$6+6=$	$3+7=$	$12-8=$	$13-6=$
$8+5=$	$6+5=$	$3+9=$	$12-3=$	$13-4=$

$3 \times 2 =$	$5 \times 2 =$	$3 \times 4 =$	$2 \times 5 =$	$10 = . \times 5$
$6 \times 2 =$	$3 \times 1 =$	$2 \times 4 =$	$2 \times 6 =$	$6 = . \times 2$
$4 \times 2 =$	$3 \times 3 =$	$4 \times 1 =$	$7 \times 1 =$	$12 = 3 \times .$
$2 \times 2 =$	$3 \times 2 =$	$4 \times 3 =$	$1 \times 9 =$	$8 = 4 \times .$

$2 \text{ in } 10 =$	$3 \text{ in } 6 =$	$4 \text{ in } 8 =$	$6 \text{ in } 6 =$
$2 \text{ in } 4 =$	$3 \text{ in } 12 =$	$4 \text{ in } 12 =$	$6 \text{ in } 12 =$
$2 \text{ in } 6 =$	$3 \text{ in } 3 =$	$5 \text{ in } 5 =$	$7 \text{ in } 11 =$
$2 \text{ in } 8 =$	$3 \text{ in } 9 =$	$5 \text{ in } 10 =$	$9 \text{ in } 12 =$

$\frac{1}{2} \text{ v. } 10 =$	$\frac{1}{2} \text{ v. } 6 =$	$\frac{1}{3} \text{ v. } 12 =$	$\frac{1}{5} \text{ v. } 10 =$
$\frac{1}{2} \text{ v. } 8 =$	$\frac{1}{2} \text{ v. } 2 =$	$\frac{1}{4} \text{ v. } 4 =$	$\frac{1}{5} \text{ v. } 5 =$
$\frac{1}{2} \text{ v. } 4 =$	$\frac{1}{3} \text{ v. } 9 =$	$\frac{1}{4} \text{ v. } 8 =$	$\frac{1}{6} \text{ v. } 6 =$
$\frac{1}{2} \text{ v. } 12 =$	$\frac{1}{3} \text{ v. } 3 =$	$\frac{1}{4} \text{ v. } 12 =$	$\frac{1}{6} \text{ v. } 12 =$

$2 \times 3 + 7 =$	$2 \times 6 - 5 =$	$\frac{1}{3} \text{ v. } 12 + 9 =$
$4 \times 2 + 4 =$	$4 \times 3 - 6 =$	$\frac{1}{2} \text{ v. } 12 - 5 =$
$3 \times 3 + 3 =$	$5 \times 2 - 8 =$	$\frac{1}{2} \text{ v. } 10 + 7 =$
$2 \times 2 + 9 =$	$2 \times 4 - 3 =$	$\frac{1}{3} \text{ v. } 12 - 3 =$



$$14 \times 1 = | 1 \text{ in } 14 =$$



$$7 \times 2 = | 2 \text{ in } 14 = | \frac{1}{7} \text{ v. } 14 =$$



$$4 \times 3 + 2 = | 3 \text{ in } 14 =$$



$$3 \times 4 + 2 = | 4 \text{ in } 14 =$$



$$2 \times 5 + 4 = | 5 \text{ in } 14 =$$



$$2 \times 6 + 2 = | 6 \text{ in } 14 =$$



$$7 + 7 = | 14 - 7 = | 14 = 7 +.$$

$$2 \times 7 = | 7 \text{ in } 14 = | \frac{1}{2} \text{ v. } 14 =$$



$$8 + 6 = | 14 - 6 = | 14 = 8 +.$$

$$6 + 8 = | 14 - 8 = | 14 = 6 +.$$

$$1 \times 8 + 6 = | 8 \text{ in } 14 =$$



$$9 + 5 = | 14 - 5 = | 14 = 9 +.$$

$$5 + 9 = | 14 - 9 = | 14 = 5 +.$$

$$1 \times 9 + 5 = | 9 \text{ in } 14 =$$



$$10 + 4 = | 14 - 4 = | 14 = 10 +.$$

$$4 + 10 = | 14 - 10 = | 14 = 4 +.$$

$$1 \times 10 + 4 = | 10 \text{ in } 14 =$$

$$1 + 4 =$$

$$6 + 4 =$$

$$5 - 4 =$$

$$10 - 4 =$$

$$2 + 4 =$$

$$7 + 4 =$$

$$6 - 4 =$$

$$11 - 4 =$$

$$3 + 4 =$$

$$8 + 4 =$$

$$7 - 4 =$$

$$12 - 4 =$$

$$4 + 4 =$$

$$9 + 4 =$$

$$8 - 4 =$$

$$13 - 4 =$$

$$5 + 4 =$$

$$10 + 4 =$$

$$9 - 4 =$$

$$14 - 4 =$$

$$3 + 4 =$$

$$12 - 4 =$$

$$5 + 2 =$$

$$7 - 2 =$$

$$2 + 3 =$$

$$7 + 4 =$$

$$8 - 4 =$$

$$9 + 2 =$$

$$11 - 2 =$$

$$5 + 3 =$$

$$4 + 4 =$$

$$10 - 4 =$$

$$8 + 2 =$$

$$12 - 3 =$$

$$8 + 3 =$$

$$9 + 4 =$$

$$6 - 4 =$$

$$4 + 2 =$$

$$6 - 3 =$$

$$4 + 3 =$$

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

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

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

$2 \text{ in } 6 =$	$3 \text{ in } 12 =$	$2 \text{ in } 14 =$	$2 \text{ in } 13 =$
$4 \text{ in } 12 =$	$2 \text{ in } 8 =$	$2 \text{ in } 4 =$	$3 \text{ in } 10 =$
$7 \text{ in } 14 =$	$4 \text{ in } 8 =$	$3 \text{ in } 3 =$	$4 \text{ in } 14 =$
$3 \text{ in } 9 =$	$2 \text{ in } 10 =$	$2 \text{ in } 12 =$	$5 \text{ in } 12 =$
$5 \text{ in } 10 =$	$3 \text{ in } 6 =$	$8 \text{ in } 8 =$	$6 \text{ in } 11 =$

$\frac{1}{3} \text{ v. } 6 =$	$\frac{1}{8} \text{ v. } 8 =$	$\frac{1}{3} \text{ v. } 12 =$	$\frac{1}{2} \text{ v. } 10 =$
$\frac{1}{5} \text{ v. } 10 =$	$\frac{1}{6} \text{ v. } 12 =$	$\frac{1}{7} \text{ v. } 14 =$	$\frac{1}{4} \text{ v. } 8 =$
$\frac{1}{4} \text{ v. } 12 =$	$\frac{1}{3} \text{ v. } 9 =$	$\frac{1}{4} \text{ v. } 4 =$	$\frac{1}{6} \text{ v. } 6 =$
$\frac{1}{2} \text{ v. } 14 =$	$\frac{1}{2} \text{ v. } 4 =$	$\frac{1}{2} \text{ v. } 8 =$	$\frac{1}{2} \text{ v. } 12 =$

$3 \times 3 + 5 =$	$5 \times 2 + 4 =$	$\frac{1}{7} \text{ v. } 14 + 8 =$
$2 \times 7 - 6 =$	$2 \times 6 - 9 =$	$\frac{1}{3} \text{ v. } 12 - 3 =$
$4 \times 2 + 4 =$	$2 \times 2 + 7 =$	$\frac{1}{2} \text{ v. } 4 + 5 =$
$2 \times 4 - 3 =$	$7 \times 2 - 8 =$	$\frac{1}{2} \text{ v. } 14 - 2 =$



	$15 \times 1 =$		$1 \text{ in } 15 =$		
	$7 \times 2 + 1 =$		$2 \text{ in } 15 =$		
	$5 \times 3 =$		$3 \text{ in } 15 =$		$\frac{1}{5} \text{ v. } 15 =$
	$3 \times 4 + 3 =$		$4 \text{ in } 15 =$		
	$3 \times 5 =$		$5 \text{ in } 15 =$		$\frac{1}{3} \text{ v. } 15 =$
	$2 \times 6 + 3 =$		$6 \text{ in } 15 =$		
	$2 \times 7 + 1 =$		$7 \text{ in } 15 =$		
	$8 + 7 =$		$15 - 7 =$		$15 = 8 +$
	$7 + 8 =$		$15 - 8 =$		$15 = 7 +$
	$1 \times 8 + 7 =$		$8 \text{ in } 15 =$		
	$9 + 6 =$		$15 - 6 =$		$15 = 9 +$
	$6 + 9 =$		$15 - 9 =$		$15 = 6 +$
	$1 \times 9 + 6 =$		$9 \text{ in } 15 =$		
	$10 + 5 =$		$15 - 5 =$		$15 = 10 +$
	$5 + 10 =$		$15 - 10 =$		$15 = 5 +$
	$1 \times 10 + 5 =$		$10 \text{ in } 15 =$		

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

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

$12 + 3 =$	$11 + 2 =$	$15 - 4 =$	$13 - 1 =$
$2 + 3 = 5$	$11 + 4 =$	$5 - 4 = 1$	$14 - 2 =$
$10 + 5 = 15$	$12 + 2 =$	$10 + 1 = 11$	$14 - 3 =$
$12 + 3 = 15$	$13 + 2 =$	$15 - 4 = 11$	$15 - 1 =$
	$14 + 1 =$		$15 - 3 =$

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

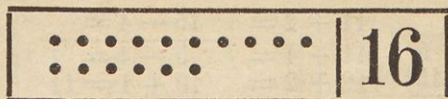
$9 + 4 =$	$7 + 8 =$	$11 - 6 =$	$13 - 7 =$	$15 - 8 =$
$9 + 6 =$	$7 + 7 =$	$11 - 8 =$	$13 - 9 =$	$15 - 7 =$
$8 + 7 =$	$6 + 6 =$	$12 - 9 =$	$14 - 8 =$	$15 - 9 =$
$8 + 5 =$	$6 + 9 =$	$12 - 7 =$	$14 - 6 =$	$15 - 6 =$

$2 \times 4 =$	$3 \times 2 =$	$5 \times 3 =$	$7 \times 2 =$	$15 = . \times 3$
$3 \times 5 =$	$2 \times 6 =$	$2 \times 7 =$	$4 \times 3 =$	$12 = . \times 4$
$4 \times 2 =$	$3 \times 4 =$	$5 \times 2 =$	$6 \times 2 =$	$10 = 2 \times .$
$2 \times 5 =$	$2 \times 2 =$	$3 \times 3 =$	$2 \times 3 =$	$15 = 5 \times .$

$2 \text{ in } 8 =$	$2 \text{ in } 10 =$	$2 \text{ in } 12 =$	$2 \text{ in } 14 =$	$2 \text{ in } 15 =$
$3 \text{ in } 8 =$	$3 \text{ in } 10 =$	$3 \text{ in } 12 =$	$3 \text{ in } 14 =$	$3 \text{ in } 15 =$
$4 \text{ in } 8 =$	$4 \text{ in } 10 =$	$4 \text{ in } 12 =$	$5 \text{ in } 14 =$	$4 \text{ in } 15 =$
$5 \text{ in } 8 =$	$5 \text{ in } 10 =$	$6 \text{ in } 12 =$	$7 \text{ in } 14 =$	$5 \text{ in } 15 =$

$\frac{1}{2} \text{ v. } 12 =$	$\frac{1}{5} \text{ v. } 10 =$	$\frac{1}{8} \text{ v. } 8 =$	$\frac{1}{3} \text{ v. } 3 =$
$\frac{1}{3} \text{ v. } 6 =$	$\frac{1}{4} \text{ v. } 8 =$	$\frac{1}{5} \text{ v. } 15 =$	$\frac{1}{7} \text{ v. } 14 =$
$\frac{1}{2} \text{ v. } 4 =$	$\frac{1}{2} \text{ v. } 8 =$	$\frac{1}{2} \text{ v. } 10 =$	$\frac{1}{3} \text{ v. } 9 =$
$\frac{1}{3} \text{ v. } 12 =$	$\frac{1}{3} \text{ v. } 15 =$	$\frac{1}{2} \text{ v. } 14 =$	$\frac{1}{4} \text{ v. } 12 =$

$5 \times 2 + 5 =$	$3 \times 5 - 4 =$	$\frac{1}{5} \text{ v. } 15 + 5 =$
$2 \times 6 - 3 =$	$4 \times 3 + 3 =$	$\frac{1}{2} \text{ v. } 14 - 3 =$
$7 \times 2 + 1 =$	$2 \times 7 - 5 =$	$\frac{1}{4} \text{ v. } 12 + 9 =$



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



$$8 \times 2 = \quad | \quad 2 \text{ in } 16 = \quad | \quad \frac{1}{8} \text{ v. } 16 =$$



$$5 \times 3 + 1 = \quad | \quad 3 \text{ in } 16 =$$



$$4 \times 4 = \quad | \quad 4 \text{ in } 16 = \quad | \quad \frac{1}{4} \text{ v. } 16 =$$



$$3 \times 5 + 1 = \quad | \quad 5 \text{ in } 16 =$$



$$2 \times 6 + 4 = \quad | \quad 6 \text{ in } 16 =$$



$$2 \times 7 + 2 = \quad | \quad 7 \text{ in } 16 =$$



$$\begin{array}{l|l|l} 8 + 8 = & 16 - 8 = & 16 = 8 +. \\ 2 \times 8 = & 8 \text{ in } 16 = & \frac{1}{2} \text{ v. } 16 = \end{array}$$



$$\begin{array}{l|l|l} 9 + 7 = & 16 - 7 = & 16 = 9 +. \\ 7 + 9 = & 16 - 9 = & 16 = 7 +. \\ 1 \times 9 + 7 = & & 9 \text{ in } 16 = \end{array}$$



$$\begin{array}{l|l|l} 10 + 6 = & 16 - 6 = & 16 = 10 +. \\ 6 + 10 = & 16 - 10 = & 16 = 6 +. \\ 1 \times 10 + 6 = & & 10 \text{ in } 16 = \end{array}$$

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

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

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

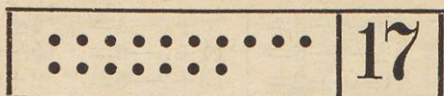
$9+5=$	$6+7=$	$9+. = 10$	$6+. = 10$	$11-5=$
$9+7=$	$6+9=$	$9+. = 12$	$6+. = 15$	$12-7=$
$8+6=$	$5+6=$	$9+. = 16$	$5+. = 10$	$13-9=$
$8+8=$	$5+8=$	$8+. = 10$	$5+. = 12$	$14-8=$
$8+4=$	$4+7=$	$8+. = 16$	$4+. = 10$	$15-6=$
$7+7=$	$4+9=$	$8+. = 12$	$4+. = 13$	$16-7=$
$7+5=$	$3+9=$	$7+. = 10$	$3+. = 11$	$16-9=$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

$2 \times 7 =$	$8 \times 2 =$	$5 \times 2 =$	$2 \times 8 =$	$16 = 2 \times .$
$3 \times 4 =$	$2 \times 3 =$	$2 \times 4 =$	$3 \times 3 =$	$14 = 7 \times .$
$4 \times 4 =$	$2 \times 5 =$	$7 \times 2 =$	$4 \times 2 =$	$12 = . \times 3$
$5 \times 3 =$	$4 \times 3 =$	$3 \times 5 =$	$2 \times 6 =$	$16 = . \times 4$

$2 \text{ in } 14 =$	$3 \text{ in } 12 =$	$4 \text{ in } 16 =$	$3 \text{ in } 11 =$	$2 \text{ in } 7 =$
$8 \text{ in } 16 =$	$2 \text{ in } 6 =$	$5 \text{ in } 10 =$	$5 \text{ in } 13 =$	$4 \text{ in } 13 =$
$5 \text{ in } 10 =$	$6 \text{ in } 12 =$	$3 \text{ in } 15 =$	$7 \text{ in } 16 =$	$6 \text{ in } 15 =$
$2 \text{ in } 16 =$	$3 \text{ in } 9 =$	$2 \text{ in } 8 =$	$9 \text{ in } 14 =$	$8 \text{ in } 12 =$

$\frac{1}{8} \text{ v. } 16 =$	$\frac{1}{2} \text{ v. } 10 =$	$\frac{1}{2} \text{ v. } 16 =$	$\frac{1}{2} \text{ v. } 14 =$
$\frac{1}{2} \text{ v. } 6 =$	$\frac{1}{4} \text{ v. } 12 =$	$\frac{1}{3} \text{ v. } 9 =$	$\frac{1}{3} \text{ v. } 12 =$
$\frac{1}{5} \text{ v. } 10 =$	$\frac{1}{5} \text{ v. } 15 =$	$\frac{1}{4} \text{ v. } 8 =$	$\frac{1}{4} \text{ v. } 16 =$
$\frac{1}{2} \text{ v. } 4 =$	$\frac{1}{7} \text{ v. } 14 =$	$\frac{1}{2} \text{ v. } 12 =$	$\frac{1}{3} \text{ v. } 15 =$

$4 \times 3 + 3 =$	$8 \times 2 - 6 =$	$\frac{1}{8} \text{ v. } 16 + 5 =$
$7 \times 2 - 5 =$	$2 \times 6 + 4 =$	$\frac{1}{3} \text{ v. } 15 - 3 =$
$3 \times 5 + 1 =$	$4 \times 4 - 5 =$	$\frac{1}{4} \text{ v. } 12 + 6 =$
$2 \times 8 - 4 =$	$5 \times 2 + 3 =$	$\frac{1}{2} \text{ v. } 16 - 4 =$



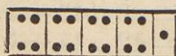
$$17 \times 1 = \quad | \quad 1 \text{ in } 17 =$$



$$8 \times 2 + 1 = \quad | \quad 2 \text{ in } 17 =$$



$$5 \times 3 + 2 = \quad | \quad 3 \text{ in } 17 =$$



$$4 \times 4 + 1 = \quad | \quad 4 \text{ in } 17 =$$



$$3 \times 5 + 2 = \quad | \quad 5 \text{ in } 17 =$$



$$2 \times 6 + 5 = \quad | \quad 6 \text{ in } 17 =$$



$$2 \times 7 + 3 = \quad | \quad 7 \text{ in } 17 =$$



$$2 \times 8 + 1 = \quad | \quad 8 \text{ in } 17 =$$



$$9 + 8 = \quad | \quad 17 - 8 = \quad | \quad 17 = 9 +$$

$$8 + 9 = \quad | \quad 17 - 9 = \quad | \quad 17 = 8 +$$

$$1 \times 9 + 8 = \quad | \quad 9 \text{ in } 17 =$$



$$10 + 7 = \quad | \quad 17 - 7 = \quad | \quad 17 = 10 +$$

$$7 + 10 = \quad | \quad 17 - 10 = \quad | \quad 17 = 7 +$$

$$1 \times 10 + 7 = \quad | \quad 10 \text{ in } 17 =$$

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

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

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

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

$3 \times 5 =$	$5 \times 2 =$	$7 \times 2 =$	$8 = . \times 4$	$15 = 3 \times .$
$4 \times 4 =$	$2 \times 8 =$	$2 \times 3 =$	$12 = . \times 3$	$10 = 5 \times .$
$2 \times 7 =$	$5 \times 3 =$	$4 \times 2 =$	$14 = . \times 2$	$16 = 4 \times .$
$3 \times 3 =$	$2 \times 6 =$	$8 \times 2 =$	$16 = . \times 8$	$12 = 3 \times .$

$2 \text{ in } 16 =$	$2 \text{ in } 14 =$	$3 \text{ in } 12 =$	$5 \text{ in } 10 =$	$3 \text{ in } 17 =$
$2 \text{ in } 6 =$	$2 \text{ in } 4 =$	$4 \text{ in } 8 =$	$6 \text{ in } 12 =$	$4 \text{ in } 13 =$
$2 \text{ in } 12 =$	$3 \text{ in } 9 =$	$4 \text{ in } 16 =$	$7 \text{ in } 14 =$	$6 \text{ in } 10 =$
$2 \text{ in } 8 =$	$3 \text{ in } 15 =$	$4 \text{ in } 12 =$	$8 \text{ in } 16 =$	$8 \text{ in } 17 =$
$2 \text{ in } 10 =$	$3 \text{ in } 6 =$	$5 \text{ in } 15 =$	$9 \text{ in } 9 =$	$9 \text{ in } 16 =$

$\frac{1}{2} \text{ v. } 8 =$	$\frac{1}{3} \text{ v. } 12 =$	$\frac{1}{4} \text{ v. } 8 =$	$\frac{1}{9} \text{ v. } 9 =$
$\frac{1}{3} \text{ v. } 15 =$	$\frac{1}{8} \text{ v. } 8 =$	$\frac{1}{7} \text{ v. } 7 =$	$\frac{1}{3} \text{ v. } 3 =$
$\frac{1}{3} \text{ v. } 6 =$	$\frac{1}{2} \text{ v. } 12 =$	$\frac{1}{2} \text{ v. } 6 =$	$\frac{1}{5} \text{ v. } 15 =$
$\frac{1}{2} \text{ v. } 4 =$	$\frac{1}{5} \text{ v. } 10 =$	$\frac{1}{3} \text{ v. } 12 =$	$\frac{1}{2} \text{ v. } 14 =$

$3 \times 2 + 8 =$	$2 \times 7 - 3 =$	$\frac{1}{2} \text{ v. } 6 + 4 =$
$6 \times 2 + 5 =$	$4 \times 4 - 5 =$	$\frac{1}{3} \text{ v. } 9 + 7 =$
$3 \times 3 + 7 =$	$8 \times 2 - 6 =$	$\frac{1}{2} \text{ v. } 14 - 7 =$
$2 \times 5 + 6 =$	$4 \times 3 - 7 =$	$\frac{1}{4} \text{ v. } 16 - 3 =$



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

$$9 \times 2 = \quad | \quad 2 \text{ in } 18 = \quad | \quad \frac{1}{9} \text{ v. } 18 =$$



$$6 \times 3 = \quad | \quad 3 \text{ in } 18 = \quad | \quad \frac{1}{6} \text{ v. } 18 =$$



$$4 \times 4 + 2 = \quad | \quad 4 \text{ in } 18 =$$



$$3 \times 5 + 3 = \quad | \quad 5 \text{ in } 18 =$$



$$3 \times 6 = \quad | \quad 6 \text{ in } 18 = \quad | \quad \frac{1}{3} \text{ v. } 18 =$$



$$2 \times 7 + 4 = \quad | \quad 7 \text{ in } 18 =$$



$$2 \times 8 + 2 = \quad | \quad 8 \text{ in } 18 =$$



$$9 + 9 = \quad | \quad 18 - 9 = \quad | \quad 18 = 9 +$$

$$2 \times 9 = \quad | \quad 9 \text{ in } 18 = \quad | \quad \frac{1}{2} \text{ v. } 18 =$$



$$10 + 8 = \quad | \quad 18 - 8 = \quad | \quad 18 = 10 +$$

$$8 + 10 = \quad | \quad 18 - 10 = \quad | \quad 18 = 8 +$$

$$1 \times 10 + 8 = \quad | \quad 10 \text{ in } 18 =$$

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

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

$$\begin{array}{l}
 2 + 8 + 8 = \\
 5 + 8 + 4 = \\
 7 + 8 + 3 = \\
 16 - 8 - 6 = \\
 18 - 8 - 5 = \\
 15 - 4 - 8 =
 \end{array}
 \left|
 \begin{array}{l}
 5 + 4 + 8 + 1 = \\
 2 + 3 + 5 + 8 = \\
 1 + 8 + 4 + 3 = \\
 17 - 8 - 2 - 5 = \\
 18 - 4 - 3 - 8 = \\
 16 - 5 - 8 - 2 =
 \end{array}
 \right|
 \begin{array}{l}
 7 + 8 + 3 - 6 = \\
 9 + 2 + 5 - 8 = \\
 12 + 5 - 8 - 4 = \\
 8 + 8 - 7 + 3 = \\
 16 - 8 + 6 - 8 = \\
 18 - 7 - 8 + 6 =
 \end{array}$$

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

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

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

$$\begin{array}{l}
 \frac{1}{6} \text{ v. } 12 = \\
 \frac{1}{2} \text{ v. } 10 = \\
 \frac{1}{4} \text{ v. } 8 = \\
 \frac{1}{3} \text{ v. } 6 =
 \end{array}
 \left|
 \begin{array}{l}
 \frac{1}{8} \text{ v. } 16 = \\
 \frac{1}{5} \text{ v. } 15 = \\
 \frac{1}{7} \text{ v. } 14 = \\
 \frac{1}{6} \text{ v. } 18 =
 \end{array}
 \right|
 \begin{array}{l}
 \frac{1}{4} \text{ v. } 16 = \\
 \frac{1}{3} \text{ v. } 18 = \\
 \frac{1}{2} \text{ v. } 14 = \\
 \frac{1}{3} \text{ v. } 12 =
 \end{array}
 \left|
 \begin{array}{l}
 \frac{1}{5} \text{ v. } 10 = \\
 \frac{1}{2} \text{ v. } 12 = \\
 \frac{1}{9} \text{ v. } 18 = \\
 \frac{1}{4} \text{ v. } 12 =
 \end{array}$$

$$\begin{array}{l}
 5 \times 2 + 8 = \\
 4 \times 4 - 7 = \\
 2 \times 4 + 6 = \\
 3 \times 3 - 5 =
 \end{array}
 \left|
 \begin{array}{l}
 4 \times 3 + 5 = \\
 3 \times 6 - 6 = \\
 2 \times 7 + 4 = \\
 9 \times 2 - 8 =
 \end{array}
 \right|
 \begin{array}{l}
 \frac{1}{2} \text{ v. } 10 + 8 = \\
 \frac{1}{3} \text{ v. } 12 - 2 = \\
 \frac{1}{4} \text{ v. } 16 + 7 = \\
 \frac{1}{2} \text{ v. } 18 - 6 =
 \end{array}$$



	$19 \times 1 =$		$1 \text{ in } 19 =$
	$9 \times 2 + 1 =$		$2 \text{ in } 19 =$
	$6 \times 3 + 1 =$		$3 \text{ in } 19 =$
	$4 \times 4 + 3 =$		$4 \text{ in } 19 =$
	$3 \times 5 + 4 =$		$5 \text{ in } 19 =$
	$3 \times 6 + 1 =$		$6 \text{ in } 19 =$
	$2 \times 7 + 5 =$		$7 \text{ in } 19 =$
	$2 \times 8 + 3 =$		$8 \text{ in } 19 =$
	$2 \times 9 + 1 =$		$9 \text{ in } 19 =$
	$10 + 9 =$		$19 - 9 =$
	$9 + 10 =$		$19 - 10 =$
	$1 \times 10 + 9 =$		$19 = 10 +$ $19 = 9 +$
			$10 \text{ in } 19 =$

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

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

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

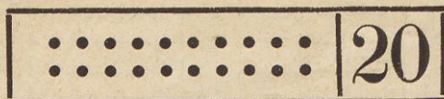
$6+3+9=$	$2+3+9+4=$	$17-9+6-8=$
$8+5+6=$	$5+6+4+4=$	$15-8-3+9=$
$3+4+7=$	$4+2+5+7=$	$14-7+5+4=$
$18-7-8=$	$18-4-3-9=$	$6+9-8+6=$
$19-9-7=$	$19-7-2-3=$	$8+7-6+9=$
$9+9-8=$	$6+7-5+9=$	$16-9+6-5=$
$12+5-9=$	$8+6-9-3=$	$12-4+7+3=$
$17-6+8=$	$16-8+9-5=$	$19-8-4+9=$

$2 \times 2 =$	$6 \times 3 =$	$2 \times 7 =$	$8 \times 2 =$	$6 = 2 \times .$
$3 \times 3 =$	$7 \times 2 =$	$3 \times 6 =$	$2 \times 9 =$	$15 = 3 \times .$
$4 \times 4 =$	$5 \times 3 =$	$4 \times 3 =$	$6 \times 2 =$	$12 = . \times 4$
$5 \times 2 =$	$9 \times 2 =$	$2 \times 5 =$	$2 \times 4 =$	$16 = . \times 8$

2 in 16 =	3 in 12 =	4 in 16 =	5 in 15 =	7 in 10 =
2 in 10 =	3 in 9 =	4 in 8 =	5 in 19 =	8 in 16 =
2 in 4 =	3 in 18 =	4 in 12 =	6 in 18 =	8 in 19 =
2 in 19 =	3 in 19 =	4 in 19 =	6 in 19 =	9 in 18 =

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

$2 \times 4 + 9 =$	$9 \times 2 - 7 =$	$\frac{1}{8}$ v. 16 + 8 =
$4 \times 3 + 7 =$	$5 \times 3 - 8 =$	$\frac{1}{5}$ v. 15 + 9 =
$2 \times 7 + 3 =$	$3 \times 6 - 5 =$	$\frac{1}{2}$ v. 18 - 7 =
$3 \times 3 + 8 =$	$4 \times 4 - 9 =$	$\frac{1}{4}$ v. 16 - 2 =



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



$$10 \times 2 = \quad | \quad 2 \text{ in } 20 = \quad | \quad \frac{1}{10} \text{ v. } 20 =$$



$$6 \times 3 + 2 = \quad | \quad 3 \text{ in } 20 =$$



$$5 \times 4 = \quad | \quad 4 \text{ in } 20 = \quad | \quad \frac{1}{5} \text{ v. } 20 =$$



$$4 \times 5 = \quad | \quad 5 \text{ in } 20 = \quad | \quad \frac{1}{4} \text{ v. } 20 =$$



$$3 \times 6 + 2 = \quad | \quad 6 \text{ in } 20 =$$



$$2 \times 7 + 6 = \quad | \quad 7 \text{ in } 20 =$$



$$2 \times 8 + 4 = \quad | \quad 8 \text{ in } 20 =$$



$$2 \times 9 + 2 = \quad | \quad 9 \text{ in } 20 =$$



$$10 + 10 = \quad | \quad 20 - 10 = \quad | \quad 20 = 10 +$$

$$2 \times 10 = \quad | \quad 10 \text{ in } 20 = \quad | \quad \frac{1}{2} \text{ v. } 20 =$$

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

$2 + 1 =$	$4 + 6 =$	$10 + 10 =$	$6 + 3 =$	$4 + 7 =$
$3 - 2 =$	$10 - 3 =$	$20 - 7 =$	$9 - 4 =$	$11 - 8 =$
$1 + 4 =$	$7 + 8 =$	$13 + 2 =$	$5 + 5 =$	$3 + 9 =$
$5 - 1 =$	$15 - 5 =$	$15 - 9 =$	$10 - 6 =$	$12 - 10 =$

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

$6+7+5=$	$19-7-8=$	$7+10-9=$
$4+8+7=$	$17-6-6=$	$18-10+7=$
$9+5+6=$	$20-5+4=$	$19-5-10=$
$3+8+9=$	$16-9+7=$	$16-9+10=$
$7+9+4=$	$13-8+6=$	$8+8-9=$
$5+6+7=$	$9+9-7=$	$15+4-10=$
$4+7+7=$	$5+8-6=$	$17-8-7=$
$8+6+4=$	$7+9-8=$	$9+10-8=$

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

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

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

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

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

$\frac{1}{2} \text{ v. } 4 =$	$\frac{1}{2} \text{ v. } 8 =$	$\frac{1}{3} \text{ v. } 15 =$	$\frac{1}{4} \text{ v. } 12 =$
$\frac{1}{2} \text{ v. } 12 =$	$\frac{1}{2} \text{ v. } 14 =$	$\frac{1}{3} \text{ v. } 6 =$	$\frac{1}{5} \text{ v. } 10 =$
$\frac{1}{2} \text{ v. } 18 =$	$\frac{1}{2} \text{ v. } 20 =$	$\frac{1}{4} \text{ v. } 20 =$	$\frac{1}{5} \text{ v. } 15 =$
$\frac{1}{2} \text{ v. } 6 =$	$\frac{1}{2} \text{ v. } 12 =$	$\frac{1}{4} \text{ v. } 4 =$	$\frac{1}{5} \text{ v. } 20 =$
$\frac{1}{2} \text{ v. } 10 =$	$\frac{1}{3} \text{ v. } 18 =$	$\frac{1}{4} \text{ v. } 16 =$	$\frac{1}{6} \text{ v. } 12 =$
$\frac{1}{2} \text{ v. } 16 =$	$\frac{1}{3} \text{ v. } 9 =$	$\frac{1}{4} \text{ v. } 8 =$	$\frac{1}{6} \text{ v. } 18 =$

$\frac{1}{4} \text{ v. } 8 + 10 =$	$\frac{1}{8} \text{ v. } 16 + 9 =$	$\frac{1}{9} \text{ v. } 18 + 7 =$
$\frac{1}{2} \text{ v. } 18 - 8 =$	$\frac{1}{2} \text{ v. } 20 - 6 =$	$\frac{1}{4} \text{ v. } 20 - 3 =$
$\frac{1}{5} \text{ v. } 10 + 7 =$	$\frac{1}{7} \text{ v. } 14 + 8 =$	$\frac{1}{6} \text{ v. } 18 + 10 =$
$\frac{1}{3} \text{ v. } 15 - 3 =$	$\frac{1}{5} \text{ v. } 15 - 2 =$	$\frac{1}{2} \text{ v. } 16 - 5 =$



2X.
2X.
5X.
3X.
6X.
7X.
4X.
8X.
3X.
9X.

7=
6=
5=
2=


8=
6=
8=
9=
0=
0=

2=
0=
5=
0=
2=
8=

7=
3=
0=
5=

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