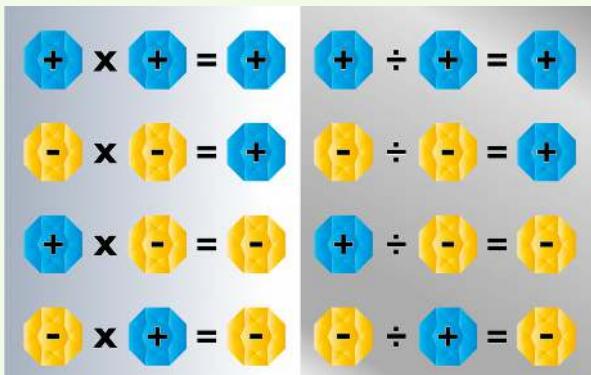


Multiplying and Dividing Integers

Rules



Concept

$$2 \times 2 = 4$$

positive \times positive = positive

$$-2 \times -2 = 4$$

negative \times negative = positive

$$2 \times -2 = -4$$

positive \times negative = negative

Examples

SAME SIGN

$$\begin{array}{r} -8 \\ \times -4 \\ \hline 32 \end{array}$$

product is positive

DIFFERENT SIGNS

$$\begin{array}{r} 8 \\ \times -4 \\ \hline -32 \end{array}$$

product is negative

SAME SIGN

$$\begin{array}{r} 27 \div 3 = 9 \\ -27 \div -3 = 9 \end{array}$$

quotient is positive

DIFFERENT SIGNS

$$\begin{array}{r} -27 \div 3 = -9 \\ 27 \div -3 = -9 \end{array}$$

quotient is negative

Assignment

-5	-2	-9	-4	4
$\times 4$	$\times -7$	$\times 2$	$\times 8$	$\times 3$
-4	-9	6	-9	12
$\times -4$	$\times 3$	$\times 8$	$\times -5$	$\times -7$

- $2 \times 3 \times -1$ $\textcircled{-6}$ $-4 \times 2 \times -1$ $\textcircled{\quad}$
- $-1 \times 4 \times -2$ $\textcircled{\quad}$ $7 \times -4 \times 3$ $\textcircled{\quad}$
- $-2 \times -1 \times 7$ $\textcircled{\quad}$ $10 \times 11 \times -4$ $\textcircled{\quad}$

$$30 \div -3 = \textcircled{-10}$$

$$12 \div -6 \times 12 = \textcircled{-24}$$

$$32 \div -2 = \textcircled{\quad}$$

$$-2 \times 12 = \textcircled{\quad}$$

$$-30 \div 3 = \textcircled{\quad}$$

$$48 \div -4 \times -2 = \textcircled{\quad}$$

$$48 \div -4 = \textcircled{\quad}$$

$$-6 \div -2 \times -1 = \textcircled{\quad}$$

$$-50 \div -5 = \textcircled{\quad}$$

$$32 \div 6 \times -4 = \textcircled{\quad}$$

$$-88 \div 2 = \textcircled{\quad}$$

$$6 \div -6 \times -1 = \textcircled{\quad}$$

$$12 \div -2 = \textcircled{\quad}$$

$$-12 \div -12 \times -12 = \textcircled{\quad}$$

$$18 \div 9 = \textcircled{\quad}$$

$$-12 \div -12 \times -12 = \textcircled{\quad}$$

$$-32 \div -4 = \textcircled{\quad}$$

$$28 \div -14 \times 4 = \textcircled{\quad}$$