

ORDER OF OPERATIONS

Addition (+), **subtraction (-)**, **multiplication (x)** and **division (÷)** are the 4 operations in mathematics.

Rules

- **Work from left to right.**

$$\begin{aligned} \text{e.g. } & 7 + 6 + 3 + 4 \\ & = 13 + 3 + 4 \\ & = 16 + 4 \\ & = \mathbf{20} \end{aligned}$$

$$\begin{aligned} & 36 \div 3 \div 4 \\ & = 12 \div 4 \\ & = \mathbf{3} \end{aligned}$$

$$\begin{aligned} & 12 + 5 - 6 \\ & = 17 - 6 \\ & = \mathbf{11} \end{aligned}$$

$$\begin{aligned} & 32 - 11 \div 3 \\ & = 21 \div 3 \\ & = \mathbf{7} \end{aligned}$$

$$\begin{aligned} & 8 \times 3 \times 10 \\ & = 24 \times 10 \\ & = \mathbf{240} \end{aligned}$$

$$\begin{aligned} & 14 - 6 - 2 - 4 \\ & = 8 - 2 - 4 \\ & = 6 - 4 \\ & = \mathbf{2} \end{aligned}$$

$$\begin{aligned} & 22 - 9 + 15 \\ & = 13 + 15 \\ & = \mathbf{28} \end{aligned}$$

$$\begin{aligned} & 16 \div 4 \times 8 \\ & = 4 \times 8 \\ & = \mathbf{32} \end{aligned}$$

- **Do multiplication and division before addition and subtraction.**

$$\begin{aligned} \text{e.g. } & 7 + 18 \div 3 \\ & = 7 + 6 \\ & = \mathbf{13} \end{aligned}$$

$$\begin{aligned} & 8 + 3 \times 9 \\ & = 8 + 27 \\ & = \mathbf{35} \end{aligned}$$

$$\begin{aligned} & 6 \times 6 + 4 \\ & = 36 + 4 \\ & = \mathbf{40} \end{aligned}$$

$$\begin{aligned} & 26 - 12 \div 3 \\ & = 26 - 4 \\ & = \mathbf{22} \end{aligned}$$

$$\begin{aligned} & 32 - 4 \times 5 \\ & = 32 - 20 \\ & = \mathbf{12} \end{aligned}$$

$$\begin{aligned} & 32 \div 8 - 1 \\ & = 4 - 1 \\ & = \mathbf{3} \end{aligned}$$