

ORDER OF OPERATIONS (WITHOUT BRACKETS) INVOLVING MULTIPLICATION/DIVISION AND ADDITION/SUBTRACTION

Involving three numbers only

Step to Success:

- 1) Whichever comes first between multiplication or division, you need to work from left to right.
- 2) Whichever comes first between addition or subtraction, you need to work from left to right.

Example 1:

a) Find the value of $13 + 20 \times 7$

Step:

$$\begin{aligned} &= 13 + 20 \times 7 \\ &= 13 + 140 \\ &= 153 \end{aligned}$$

Carry out multiplication first before addition.

b) Find the value of $70 - 75 \div 5$

Step:

$$\begin{aligned} &= 70 - 75 \div 5 \\ &= 70 - 15 \\ &= 55 \end{aligned}$$

Carry out division first before subtraction.

Example 2:

a) Find the value of $6 \times 6 - 15$

Step:

$$\begin{aligned} &= 6 \times 6 - 15 \\ &= 36 - 15 \\ &= 21 \end{aligned}$$

Carry out multiplication first before subtraction.

b) Find the value of $72 \div 9 + 18$

Step:

$$\begin{aligned} &= 72 \div 9 + 18 \\ &= 8 + 18 \\ &= 26 \end{aligned}$$

Carry out division first before addition.

Do the following operation based on the order of the operation.

(1) $25 + 3 \times 6$

(4) $17 - 64 \div 8$

(2) $49 - 4 \times 7$

(5) $27 + 120 \div 10$

(3) $6 \times 5 + 15$

(6) $144 \div 12 - 6$