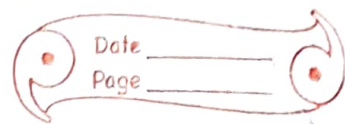


Simplification - BODMAS RULE

Average

Worksheet



1. Fill in

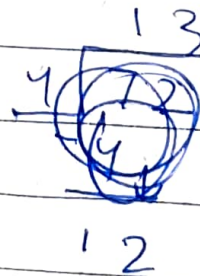
- Sums involving ~~bracket~~ brackets are to be solved first.
- These $\{$ $($ brackets are called Parentheses or common brackets.
- In BODMAS "M" stands for Multiplication.
- We remove the square bracket last while simplifying.
- While simplifying subtraction is the last operation to be solved.

2. $76 \div 4 + 8 - 3 \times 2$

$$= 19 + 8 - 3 \times 2$$

$$= 19 + 8 - 6$$

$$= 27 - 6 = 21$$



$$b. \quad 54 \div 9 \times 6 - 4 + 3 + 8$$

~~$$= 54$$~~

$$= 6 \times 6 - 4 + 3 + 8$$

$$= 36 - 4 + 3 + 8$$

~~$$= 36 - 4 + 11$$~~

$$= 36 - 4 + 11$$

$$= 27 \quad 36 + 11 - 4 = 47 - 4 = 43$$

$$3a. \quad 12 - [20 \div \{20 + \{8 - 2(9 - 5 - 2)\}\}]$$

$$= 12 - [20 \div \{8 - 2 \times 2\}]$$

~~$$= 12 - [20 \div \{8 - 4\}]$$~~

$$= 12 - [20 \div \{8 - 4\}]$$

~~$$= 12 - 5 \times 2 = 12 - [20 \div 4]$$~~

~~$$= 12 - 10 = 12 - 5$$~~

~~$$= 7$$~~

~~$$= 2$$~~

$$b. \quad 25 - \frac{1}{2} \{ 5 + 4 - (3 + 2 - 1 + 3) \}$$

$$= 25 - \frac{1}{2} \{ 5 + 4 - 7 \} = 25 - \frac{1}{2} \{ 9 - 7 \}$$

$$= 25 - \frac{1}{2} \times 2$$

~~$$= 25 - 1$$~~

$$= 25 - 1$$

~~$$= 24$$~~

$$= 24$$

$$c. \quad 0.4 \div [1.5 \div \{ 0.6 \div (0.3 - 0.3 - 0.1) \}]$$

$$= 0.4 \div [1.5 \div \{ 0.6 \div (0.3 - 0.2) \}]$$

$$= 0.4 \div [1.5 \div \{ 0.6 \div (0.1) \}]$$

$$= 0.4 \div [1.5 \div \{ 0.6 \div 0.1 \}]$$

~~$$= 0.4 \div [1.5 \div \{ 0 \}]$$~~

$$= 0.4 \div [1.5 \div \{ \frac{6}{10} \div \frac{1}{10} \}]$$

$$= 0.4 \div [1.5 \div \{ \frac{6}{10} \times \frac{10}{1} \}]$$



$$= \frac{4}{10} \div \left[\frac{15}{10} \div 6 \right]$$

$$= \frac{4}{10} \div \left[\frac{15}{10} \times \frac{1}{6} \right]$$

$$= \frac{4}{10} \div \frac{1}{6}$$

$$= \frac{4}{10} \times 6$$

$$= \frac{4}{10} \times \frac{6}{1} = \frac{4 \times 6}{10 \times 1} = \frac{24}{10} = 2.4$$