



Order of Operations (involving addition, subtraction, multiplication & division)

Grade 6 Expressions & Equations Worksheet

Date: _____

Name: _____

Evaluate each expression using the order of operations (**PEMDAS**).

Note: **MD** (Multiplication and Division is from Left to Right); **AS** (Addition and Subtraction is from Left to Right)

1. $2 - 20 \div 4 \times 3 =$

Workings:

2. $16 \times 10 \div 5 + 11 =$

Workings:

3. $12 \times 10 - 24 \div 8 =$

Workings:

4. $2 - 1 + 5 \times 4 \times 10 =$

Workings:

5. $25 \div 5 + 10 - 9 \times 11 =$

Workings:



Order of Operations (involving addition, subtraction, multiplication & division)

Grade 6 Expressions & Equations Answer Sheet

1. $2 - 20 \div 4 \times 3 = \boxed{-13}$

Workings:

$$2 - 20 \div 4 \times 3$$

First, divide $20 \div 4 = 5$

$$= 2 - 5 \times 3$$

Next, multiply $5 \times 3 = 15$

$$= 2 - 15$$

Then, subtract $2 - 15 =$

$$-13$$

$$= -13$$

2. $16 \times 10 \div 5 + 11 = \boxed{43}$

Workings:

$$16 \times 10 \div 5 + 11$$

First, multiply $16 \times 10 = 160$

$$= 160 \div 5 + 11$$

Next, divide $160 \div 5 = 32$

$$= 32 + 11$$

Then, add $32 + 11 = 43$

$$= 43$$

3. $12 \times 10 - 24 \div 8 = \boxed{117}$

Workings:

$$12 \times 10 - 24 \div 8$$

First, multiply $12 \times 10 = 120$

$$= 120 - 24 \div 8$$

Next, divide $24 \div 8 = 3$

$$= 120 - 3$$

Finally, subtract $120 - 3 = 117$

$$= 117$$

4. $2 - 1 + 5 \times 4 \times 10 = \boxed{201}$

Workings:

$$2 - 1 + 5 \times 4 \times 10$$

First, multiply $5 \times 4 = 20$

$$= 2 - 1 + 20 \times 10$$

Then, multiply $20 \times 10 = 200$

$$= 2 - 1 + 200$$

Then, subtract $2 - 1 = 1$

$$= 1 + 200$$

Then, add $1 + 200 = 201$

$$= 201$$

5. $25 \div 5 + 10 - 9 \times 11 = \boxed{-84}$

Workings:

$$25 \div 5 + 10 - 9 \times 11$$

First, divide $25 \div 5 = 5$

$$= 5 + 10 - 9 \times 11$$

Then, multiply $9 \times 11 = 99$

$$= 5 + 10 - 99$$

Next, subtract $5 + 10 = 15$

$$= 15 - 99$$

Finally, subtract $15 - 99 = -84$

$$= -84$$