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Order of Operations Worksheets 5th Grade

1) Which expression is equal to 10?

- a) $18 - (8 \div 2) \times 2$
- b) $18 + 2 \div (5 \times 2)$
- c) $(2 + 8) \div 5 \times 2$
- d) $4 + 2 - 3 \times 2$

2) Put the correct operator (+, -, ×, ÷) in order to get the desired answer.

- a) $15 _ 3 _ 9 = 45$
- b) $23 _ 5 _ 26 = 2$

3) Match the column:

1.	$4+3 \times 2$	a.	6
2.	$8-4 \div 2$	b.	1
3.	$4-1-2$	c.	7
4.	$5+8 \div 4$	d.	10

4) Simplify : $98 \div 7 + 1$

5) Prove that: $7 \times [39 \div (10 + 3)] = 21$

6) Using PEMDAS evaluate:

$$9 - [12 \times \{3 \times 5 - 3\} + 9]$$

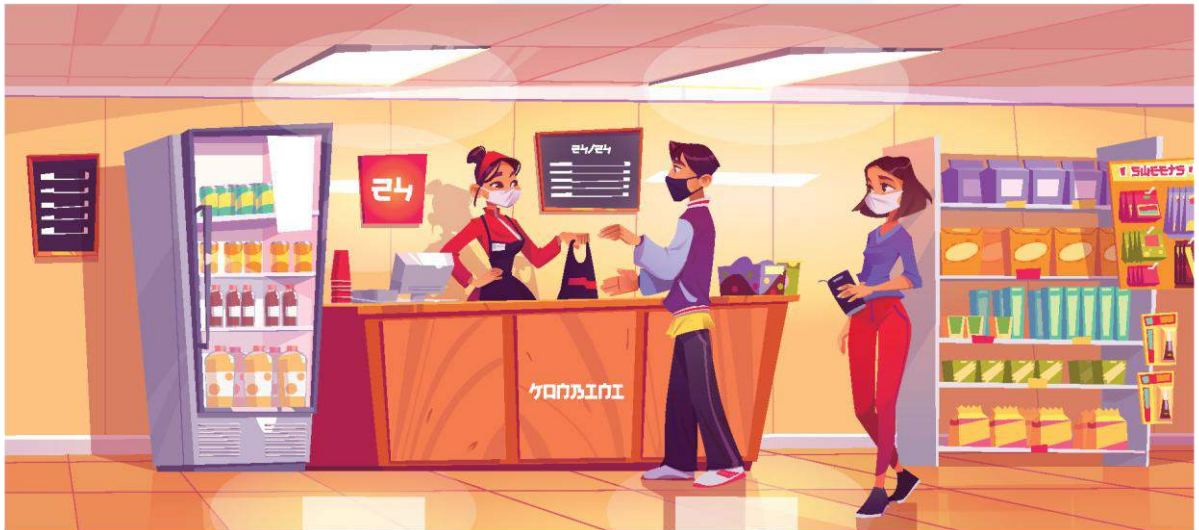


7) Using PEMDAS evaluate:

$$\{10 \times (30 \div 2 - 13)\} \div 600$$

8) The result of 25 less than the product of squares of 10 and 2 is divided by 75. What is the number obtained?

9) Danice went to the grocery store and purchased 3 packets of noodles, 5 packets of cookies, and 2 packets of dry fruits. If the cost of each packet of noodles, cookies, and dry fruits is \$2, ₱20 and ₱ 50 respectively. What is the total amount paid by Danice?



10) Using PEMDAS evaluate:

$$10 - \{5 \times 2^2 + (7 - 1) + 15\}$$

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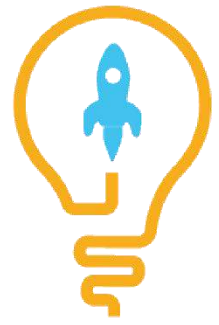
- Barbara Cabrera

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ANSWERS

1)	a. $18 - (8 \div 2) \times 2$
2)	a. (\div, \times) b. $(+, -)$
3)	1---d, 2---a, 3---b, 4---c
4)	3
5)	L.H.S. = R.H.S.
6)	0
7)	3
8)	5
9)	\$8
10)	17

**SOLUTIONS**

Complete solution/explanation

1) a. $18 - (8 \div 2) \times 2 = 18 - 4 \times 2 = 18 - 8 = 10$

2) a. $15 \div 3 \times 9 = 45$

b. $23 + 5 - 26 = 2$

3)

1.	$4+3 \times 2$	d.	10
2.	$8-4 \div 2$	a.	6
3.	$4-1-2$	b.	1
4.	$5+8 \div 4$	c.	7

4) $98 \div 7 + 1$

$= 98 \div 49 + 1$

$= 2 + 1$

$= 3$

5) L.H.S. = $7 \times [39 \div (10 + 3)]$

$= 7 \times [39 \div 13]$

$= 7 \times 3$

$= 21 = \text{R.H.S.}$

Hence proved.

6) $9 - [12 \times \{3 \times 5 - 3\} + 9]$

$= 81 - [12 \times \{3 \times 5 - 9\} + 9]$

$= 81 - [12 \times \{15 - 9\} + 9]$

$= 81 - [12 \times 6 + 9]$

$= 0$

7) $\{10 \times (30 \div 2 - 13)\} \div 600$

$= \{10 \times (15 - 13)\} \div 600$

$= \{10 \times 2\} \div 600$

$= \{100 \times 2\} \div 600$

$= 200 \div 600$

$= \frac{1}{3}$

8) Expression for the given problem: $\{(10^2 \times 2^2) - 50\} \div 75$

$$\begin{aligned} &= \{(100 \times 4) - 50\} \div 75 \\ &= \{400 - 50\} \div 75 \\ &= 350 \div 75 \\ &= 4 \frac{2}{3} \end{aligned}$$

9) We will calculate the total amount in dollars, using conversion formula: \$1 = ₱100

Expression for the given problem: $\$ 3 \times 2 + \{(5 \times 20) \div 100\} + \{(2 \times 50) \div 100\}$

$$\begin{aligned} &= 3 \times 2 + \{100 \div 100\} + \{100 \div 100\} \\ &= 3 \times 2 + 1 + 1 \\ &= 6 + 1 + 1 \\ &= \$8 \end{aligned}$$

10) $100 - \{5 \times 2^2 + (7 - 1) + 15\}$

$$\begin{aligned} &= 100 - \{5 \times 4 + (49 - 1) + 15\} \\ &= 100 - \{5 \times 4 + 48 + 15\} \\ &= 100 - \{20 + 48 + 15\} \\ &= 100 - 83 \\ &= 17 \end{aligned}$$

FUN FACT

1. PEMDAS is often expanded to the mnemonic "Please Excuse My Dear Aunt Sally".
2. Order of operation was first introduced in the 1800s.
3. Achilles Reselfelt is the mathematician who invented BODMAS.

