

Exercise 6A

1.

Solution

The given expression

$$= 21 - 12 \div 3 \times 2$$

=
$$21 - 4 \times 2$$
 (by performing division)

$$= 21 - 8$$
 (by performing multiplication)

= 13 (by performing subtraction)

Hence,
$$21 - 12 \div 3 \times 2 = 13$$

2.

Solution

The given expression

$$= 16 + 8 \div 4 - 2 \times 3$$

=
$$16 + 2 - 2 \times 3$$
 (by performing division)

=
$$16 + 2 - 6$$
 (by performing multiplication)

$$= 18 - 6$$
 (by performing addition)

= 12 (by performing subtraction)

Hence,
$$16 + 8 \div 4 - 2 \times 3 = 12$$

3.

Solution

The given Expression is

=
$$13 - (12 - 6 \div 3)$$
 (by performing division)

=
$$13 - (12 - 2)$$
 (by performing subtraction)

= 3

Hence,
$$13 - (12 - 6 \div 3) = 3$$

4.

Solution

The given expression is

$$= 19 - [4 + \{16 - (12 - 2)\}]$$

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=
$$19 - [4 + \{16 - 10\}]$$
 (by removing parentheses)
= $19 - [4 + 6]$ (by removing braces)
= $19 - 10$ (by removing brackets)
= 9
Hence, $19 - [4 + \{16 - (12 - 2)\}] = 9$
5.

Solution

The given expression is

$$= 36 - [18 - \{14 - (15 - 4 \div 2 \times 2)\}]$$

$$= 36 - [18 - \{14 - (15 - 2 \times 2)\}]$$
 (by performing division)

$$= 36 - [18 - \{14 - (15 - 4)\}]$$
 (by performing multiplication)

$$= 36 - [18 - \{14 - 11\}]$$
 (by removing parentheses)

$$=36-[18-3]$$
 (by removing braces)

= 21

Hence,
$$36 - [18 - \{14 - (15 - 4 \div 2 \times 2)\}] = 21$$

6.
$$27 - [18 - \{16 - (5 - 4 - 1)\}]$$

Solution

The given expression is



7.
$$4\frac{4}{5} \div \frac{3}{5} of 5 + \frac{4}{5} \times \frac{3}{10} - \frac{1}{5}$$

Solution

The given expression is
$$4\frac{4}{5} \div \frac{3}{5} of 5 + \frac{4}{5} \times \frac{3}{10} - \frac{1}{5}$$

$$4\frac{4}{5} \div \frac{3}{5} \times \frac{5}{1} + \frac{4}{5} \times \frac{3}{10} - \frac{1}{5}$$

$$= 24/5 \div 3/1 + 4/5 \times 3/10 - 1/5$$

$$= 24/5 \times 1/3 + 4/5 \times 3/10 - 1/5$$

$$= 24/15 + 4/5 \times 3/10 - 1/5$$

$$= 8/5 + 4/5 \times 3/10 - 1/5$$

$$= 8/5 + 4/5 \times 3/10 - 1/5$$

$$= 8/5 + 6/25 - 1/5$$

$$= (40 + 6 - 5)/25$$

$$= (46 - 5)/25$$

(by removing 'of ') (by removing multiplication) (by removing '÷ ') (by multiplying)

(by removing 'x')

25	41	1
	25	
	16	

$$= 41 / 25$$

$$=1\frac{16}{25}$$



Exercise 6B

OBJECTIVE QUESTIONS

1.

Solution

Given

$$8 + 4 \div 2 \times 5$$

$$= 8 + 2 \times 5$$
 (by dividing)

= 18

$$...8 + 4 \div 2 \times 5 = 18$$

2.

Solution

Given

$$= 54 \div (3 \times 6) + 9$$

=
$$54 \div (18) + 9$$
 (by multiplying)

$$= 54 \div 18 + 9$$

$$= 3 + 9$$
 (by dividing)

= 12

$$...54 \div 3 \text{ of } 6 + 9 = 12$$

3.

Solution

Given

$$13 - (12 - 6 \div 3)$$

$$= 13 - (12 - 2)$$
 (by dividing)

$$= 13 - 10$$
 (by subtracting)

= 3

$$\therefore 13 - (12 - 6 \div 3) = 3$$

4.

Solution

Given





= 7

$$\therefore$$
 1001 ÷ 11 of 13 = 7

5.

Solution

Given

$$133 + 28 \div 7 - 8 \times 2$$

$$= 133 + 4 - 8 \times 2$$
 (by division)

$$= 133 + 4 - 16$$
 (by multiplication)

= 137 - 16 (by addition)

= 121

$$\therefore 133 + 28 \div 7 - 8 \times 2 = 121$$