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Maths Operations Questions for CGL Tier 1 & SSC 10+2

Maths Operation Quiz 2

Directions: Kindly solve the following questions and choose an option as your answer for each.

1. Which interchange of signs will make the following equation correct?

$$10 + 10 \div 10 - 10 \times 10 = 10$$

- A. + and - B. + and \div C. + and \times D. \div and +

2. Select the correct combination of mathematical signs to replace * signs and to balance the following equation:

$$8 * 8 * 1 * 7 = 8$$

- A. $\times \div +$ B. $+ \times \div$ C. $\div \times +$ D. $+ \times \div$

3. If 'R' stands for '-', 'A' stands for '+', 'B' stands for ' \div ' and 'C' stands for ' \times ', then what is the value, of the given equation? (BODMAS rule will not be applicable)

$$25 A 37 C 2 B 4 R 1 = ?$$

- A. 32 B. 35 C. 30 D. 27

4. If '-' stands for ' \div '; '+' stands for ' \times '; ' \div ' stands for '-' and ' \times ' stands for '+'. Which one of the following is correct?

- A. $10 + 5 - 5 \div 5 \times 5 = 10$ B. $10 - 5 + 5 \div 5 \times 5 = 25$ C. $10 \times 5 \div 5 + 5 - 5 = 0$
D. $10 \div 5 \times 5 \div 5 = 5$

5. If + means \div , - means \times , \times means +, \div means -, give the value for $45 + 9 - 3 \times 15 \div 2 = ?$

A. 40 B. 36 C. 556 D. 28

6. Which interchange of signs will make the following equation correct?

$$(16 - 4) \times 6 \div 2 + 8 = 30$$

A. \div and $-$ B. 4 and 2 C. $-$ and $+$ D. 16 and 6

7. $25 * 2 * 6 = 4 * 11 * 0$

Which set of symbols can replace?

A. $\times, -, \times, +$ B. $+, -, \times, +$ C. $\times, + \times, -$ D. $\times, +, +, \times$

8. If \times stands for $-$, $+$ means \times , \div means $+$ and $-$ means \div , then what is the value of the given expression ?

$$175 - 25 \div 5 + 20 \times 3 + 10 = ?$$

A. 77 B. 160 C. 240 D. 2370

9. If ' \times ' means 'addition', ' $-$ ' means 'division', ' \div ' means subtraction and ' $+$ ' means 'multiplication', then which of the following equations is correct?

A. $16 + 5 - 10 \times 4 \div 3 = 9$ B. $16 - 5 \times 10 \div 4 + 3 = 12$ C. $16 + 5 \div 10 \times 4 - 3 = 9$

D. $16 \times 5 \div 10 \div 4 - 3 = 19$

10. Select the correct combination of mathematical signs to replace * signs and to balance the given equation:

$$18 * 6 * 3 * 12 * 24$$

A. $\div - = \times$ B. $\times \div - =$ C. $+ \div \times =$ D. $\times = \div +$

Correct Answers:

1	2	3	4	5	6	7	8	9	10
C	C	C	A	D	A	A	A	A	B

Explanations:

1.

From the option 3rd, we get:

$$\Rightarrow 10 + 10 \div 10 - 10 \times 10 = 10$$

$$\Rightarrow 10 \times 10 \div 10 - 10 + 10 = 10$$

$$\Rightarrow 10 - 10 + 10 = 10.$$

Hence, the option C is correct.

2.

From the option 3rd, we get:

$$8 * 8 * 1 * 7 = 8$$

$$\Rightarrow 8 \div 8 \times 1 + 7 = 8$$

$$\Rightarrow 1 \times 1 + 7 = 8$$

Hence, the option C is correct.

3.

R = - , A = + , B = \div , C = \times

$$25 A 37 C 2 B 4 R 1 = ?$$

$$\Rightarrow ? = 25 + 37 \times 2 \div 4 - 1$$

$$\Rightarrow ? = 62 \times 2 \div 4 - 1$$

$$\Rightarrow ? = 124 \div 4 - 1$$

$$\Rightarrow ? = 31 - 1 = 30$$

Hence, the option C is correct.



4.

-	⇒	÷	+	⇒	×
÷	⇒	-	×	⇒	+

From the option 1:

$$\Rightarrow 10 + 5 - 5 \div 5 \times 5 = 10$$

$$\Rightarrow 10 \times 5 \div 5 - 5 + 5 = 10$$

$$\Rightarrow 10 \times 1 - 5 + 5 = 10$$

$$\Rightarrow 10 - 5 + 5 = 10$$

Hence, the option A is correct.

5.

+	⇒	÷	-	⇒	×
×	⇒	+	÷	⇒	-

$$45 + 9 - 3 \times 15 \div 2 = ?$$

$$\Rightarrow ? = 45 \div 9 \times 3 + 15 - 2$$

$$\Rightarrow ? = 5 \times 3 + 15 - 2$$

$$\Rightarrow ? = 15 + 15 - 2$$

$$\Rightarrow ? = 30 - 2$$

$$\Rightarrow ? = 28.$$

Hence, the option D is correct.

6.

From the first option, we will get:

$$(16 - 4) \times 6 \div 2 + 8 = 30$$

$$\Rightarrow (16 \div 4) \times 6 - 2 + 8 = 30$$

$$\Rightarrow 4 \times 6 - 2 + 8 = 30$$

$$\Rightarrow 24 - 2 + 8 = 30$$

$$\Rightarrow 32 - 2 = 30$$

Hence, the option A is correct.

7.

From the first option, we get:

$$25 \times 2 - 6 = 4 \times 11 + 0$$

$$\Rightarrow 50 - 6 = 44 + 0$$

$$\Rightarrow 44 = 44.$$

Hence, the option A is correct.

8.

$\times \Rightarrow -$	$+ \Rightarrow \times$
$\div \Rightarrow +$	$\div \Rightarrow \div$

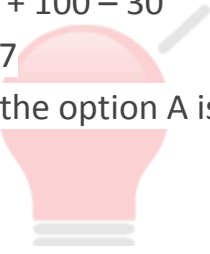
$$175 - 25 \div 5 + 20 \times 3 + 10 = ?$$

$$\Rightarrow ? = 175 \div 25 + 5 \times 20 - 3 \times 10$$

$$\Rightarrow ? = 7 + 100 - 30$$

$$\Rightarrow ? = 77$$

Hence, the option A is correct.



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9.

From the first option, we get:

$$16 + 5 - 10 \times 4 \div 3 = 9$$

$$\Rightarrow 16 \times 5 \div 10 + 4 - 3 = 9$$

$$\Rightarrow 16 \times \frac{1}{2} + 4 - 3 = 9$$

$$\Rightarrow 8 + 4 - 3 = 9$$

$$\Rightarrow 12 - 3 = 9.$$

Hence, the option A is correct.

10.

From the second option, we get:

$$18 \times 6 \div 3 - 12 = 24$$

$$\Rightarrow 18 \times 2 - 12 = 24$$

$$\Rightarrow 36 - 12 = 24$$

Hence, the option B is correct.



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