Instructions
For the following questions answer them individually

Question 1
Select the option that can replace the question mark (?) in the following equation.

\[ 2 + 5 \div \left[ 5 + 8 \div \left( 1 + \frac{1}{3} \right) - 1 \right] = ? \]

A \( \frac{1}{2} \)
B \( \frac{5}{2} \)
C \( \frac{3}{2} \)
D \( 2 \)

Answer: B

Explanation:
\[ = 2 + 5 \div \left[ 5 + 8 \div \left( \frac{4}{3} \right) - 1 \right] \]
\[ = 2 + 5 \div \left[ 5 + 8 \times \frac{3}{4} - 1 \right] \]
\[ = 2 + 5 \div 10 \]
\[ = \frac{5}{2} \]

Hence, option B is the correct answer.

Question 2
What should come in place of the question mark (?) in the following question?

\[ 2 - \left[ 6 - \{ 3 + (-4 + 5 + 1) \times 8 \} + 12 \} \right] = ? \]

A \( 4 \)
B \( 2 \)
C \( 3 \)
D \( 1 \)

Answer: C

Explanation:
Expression : \[ 2 - \left[ 6 - \{ 3 + (-4 + 5 + 1) \times 8 \} + 12 \} \]
\[ = 2 - \left[ 6 - \{ 3 + (2 \times 8) \} + 12 \} \]
\[ = 2 - [ 6 - 19 + 12 ] \]
\[ = 2 + 1 = 3 \]
\[ => \text{Ans} - (C) \]

Question 3
What should come in place of the question mark (?) in the following question?

\[ 1 - \left[ 5 - \{ 2 + (-5 + 6 - 2) \} \right] = ? \]

A \( 0 \)
B \( 2 \)
Answer: D

Explanation:
Expression: \(1 - [5 - \{2 + (\frac{1}{-1})\}] =?\)

\(= 1 - [5 - (2 - 2)]\)
\(= 1 - (5 - 0)\)
\(= 1 - 5 = -4\)

=> Ans - (D)

Question 4

What approximate value should come in place of the question mark (?) in the following equation?
\(\frac{1}{9} \div \frac{1}{3} \times \frac{1}{2} =?\)

A \(\frac{1}{6}\)
B \(\frac{1}{2}\)
C \(\frac{1}{9}\)
D \(\frac{1}{3}\)

Answer: B

Explanation:
\(\frac{1}{9} \div \frac{1}{3} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{9} \div \frac{27}{6}\)
\(= 9 \times 27 \times \frac{1}{6} = 2\times \frac{1}{2} = \frac{1}{2}\)

Question 5

What should come in place of question mark (?) in the following questions?
\((140 + 80 \times 2 - 24) \div (80 + 20 \times 3 - 40) =?\)

A \(276\)
B \(-27.6\)
C \(2.76\)
D \(0.276\)

Answer: C

Explanation:
Question 6
What should come in place of question mark (?) in the following questions?
$1.5 \times 78 \div 0.5 = ?$

A 243
B 234
C 238
D 216

Answer: B

Explanation:
$1.5 \times 78 = 117$
$117 \div 0.5 = 234$

Question 7
What should come in place of question mark (?) in the following questions?
$383 \div 25 \times 2.5 + 12 = ?$

A 68.30
B 222.14
C 50.30
D 124.24

Answer: C

Question 8
What should come in place of the question mark (?) in the following question?
$6 \div 6 \times 9 + 6 - 9 \times 6 - 6 + 6 \times 9 = ?$

A 7
B 8
C 10
D 9

Answer: D
Question 9
What should come in place of the question mark (?) in the following question?

\[ \frac{16 \div 4 \times 4}{4} = ? \]

A 2
B 5
C 4
D 3
Answer: C

Question 10
What value should come in place of question mark(?) in the following equation?

\[ 360 \sqrt{?} + 4500 = 19700 - 9800 \]

A 395
B 295
C 225
D 215
Answer: C

Explanation:
\[ 360 \sqrt{?} + 4500 = 19700 - 9800 \]
\[ \Rightarrow 360 \sqrt{?} + 4500 = 9900 \]
\[ \Rightarrow 360 \sqrt{?} = 5400 \]
\[ \Rightarrow \sqrt{?} = 15 \]
\[ \Rightarrow ? = 15^2 \]
\[ \Rightarrow ? = 225 \]
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