





SC Banking

WB Police

WB Civil Services

Other Competitive Exams

Date: 16th Dec 2023

Quantitative Aptitude - Simplification

English

Q:1 What will come in place of question mark (?) in the following question?

$$5\% \text{ of } 5^2 \times 12^2 - 140 = 2 \times ?$$

- **1**. 15
- **2**. 25
- **3**. 22
- **5.** 24

Q:2 What will come in place of question mark (?) in the following question?

$$(?-2) \div 0.4 = 165 \div 3$$

- **1.** 20
- **2**. 30
- **3**. 24
- **5**. 25

Q:3 What will come in place of question mark (?) in the following question?

$$[9/4 + 4] \times 8 = ? \times 10$$

- **1**. 10
- **2.** 8
- **3.** 6
- **5**. 4

Q:4 What will come in place of question mark (?) in the following question?

$$22.5 \div 2.5 \times 8 - 12 = ?$$

- **1.** 100
- **2.** 80
- **3.** 40
- **5.** 60

Q:5 What will come in place of question mark (?) in the following question?

$$24 \times ? = 20 \times 5 \times 6$$

- **1.** 20
- **2.** 25
- **3.** 18
- **5.** 28

Q:6 What will come in place of question mark (?) in the following question?

$$14 \times 627 \div \sqrt{1089} = (?)^3 + 141$$

- 1.5
- **2.** 10
- **3.** 15

Q:7 What will come in place of question mark (?) in the following question?

$$27 - [16^2 - (273 + 281) \div 2] = ?$$

- **1.** 48
- **2.** 50
- **3.** 52
- **5**. 44

Q:8 What will come in place of question mark (?) in the following question?

$$2.25\%$$
 of $(80\%$ of $800) - 1.5\%$ of $(60\%$ of $800) = ?$

- 1. 7
- **2.** 7.2
- **3.** 7.4
- **5.** 7.8

Q:9 Directions: What will come in place of question mark (?) in the following question?

$$4.5 + 23.50 + 14.58 - 17.68 \times 0.5 = ?$$

- **1.** 33.14
- 2. 33.34
- 3.33.54
- **5**. 33.94

Q:10 Directions: What will come in place of question mark (?) in the following question? $\{(7.29 \times 2.7) \div 1000\} \times 10^3 = (?)^3 \times 10^{-3}$

- 1. 3³
- **2.** 3²
- **3.** 3¹
- **5.** 0





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Answer Key

1 . (4)	2 . (3)	3 . (4)	4. (5)	5. (2)	
6 . (1)	7. (1)	8. (2)	9 . (4)	10 . (1)	

Answers and Solutions

Q:1 The correct answer is option 4 i.e. 20.

5% of
$$5^2 \times 12^2 - 140 = 2 \times ?$$

Applying the BODMAS rule,
 $\Rightarrow 0.05 \times 25 \times 144 - 140 = 2 \times ?$
 $\Rightarrow 1.25 \times 144 - 140 = 2 \times ?$
 $\Rightarrow 180 - 140 = 2 \times ?$
 $\Rightarrow 40 = 2 \times ?$

⇒
$$(? - 2) \div 0.4 = 165 \div 3$$

⇒ $(? - 2) \div 0.4 = 55$
⇒ $(? - 2) = 55 \times 0.4$
⇒ $? = 22 + 2$
⇒ $? = 24$

Q:3 The correct answer is option 4 i.e. 5

$$\Rightarrow [9/4 + 4] \times 8 = ? \times 10$$

$$\Rightarrow 25/4 \times 8 = ? \times 10$$

$$\Rightarrow ? = 50/10$$

$$\Rightarrow ? = 5$$

Q:4 The correct answer is option 5 i.e. 60

⇒
$$22.5 \div 2.5 \times 8 - 12 = ?$$

⇒ $9 \times 8 - 12 = ?$
⇒ $? = 72 - 12$
⇒ $? = 60$

Q:5 The correct answer is option 2 i.e. 25

$$\Rightarrow 24 \times ? = 20 \times 5 \times 6$$
$$\Rightarrow 24 \times ? = 600$$
$$\Rightarrow ? = 25$$

14 × 627 ÷ √1089 =
$$(?)^3$$
 + 141
Using the BODMAS rule:
⇒ 14 × 627 ÷ 33 = $(?)^3$ + 141
⇒ 14 × 19 = $(?)^3$ + 141

⇒
$$266 = (?)^3 + 141$$

⇒ $125 = (?)^3$
⇒ $? = 5$

Q:7 The correct answer is **Option 1** i.e. **48**.
$$27 - [16^2 - (273 + 281) \div 2] = ?$$

Using the BODMAS rule:

$$\Rightarrow 27 - [256 - 554/2] = ?$$

 $\Rightarrow 27 - 256 + 277 = ?$
 $\Rightarrow ? = 48$

Q:8 The correct answer is Option 2 i.e. 7.2.

2.25% of
$$(80\% \text{ of } 800) - 1.5\% \text{ of } (60\% \text{ of } 800) = ?$$

Using the BODMAS rule:
 \Rightarrow ? = 2.25% of $\{(80/100) \times 800\} - 1.5\% \text{ of}$

$$((60/100) \times 800)$$

 \Rightarrow ? = 2.25% of 640 - 1.5% of 480
 \Rightarrow ? = $(2.25/100) \times 640 - (1.5/100) \times 480$
 \Rightarrow ? = 14.4 - 7.2
 \Rightarrow ? = 7.2

Q:9 The correct answer is Option 4 i.e. 33.74.

$$4.5 + 23.50 + 14.58 - 17.68 \times 0.5 = ?$$
⇒ $4.5 + 23.50 + 14.58 - 8.84 = ?$
⇒ $42.58 - 8.84 = ?$
⇒ $? = 33.74$

Q:10 The correct answer is Option 1 i.e. 33.

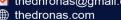
$$\{(7.29 \times 2.7) \div 1000\} \times 10^3 = (?)^3 \times 10^{-3}$$

 $\Rightarrow (?)^3 \times 10^{-6} = \{(19.683) \div 1000\}$
 $\Rightarrow (?)^3 \times 10^{-6} = 19683 \times 10^{-6}$
 $\Rightarrow (?)^3 = 19683$
 $\Rightarrow (?)^3 = (27)^3$
On comparing both sides

$$\Rightarrow ? = 27$$
$$\Rightarrow ? = 3^3$$











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