

Quiz Date: 6<sup>th</sup> August 2020

Directions (1-15): What will come in place of the question mark (?) in the following questions?

Q1.  $\sqrt{360 - 225 \times 2 + 379} = ?$

- (a) 17
- (b) 19
- (c) 279
- (d) 289
- (e) None of these

Q2.  $9^3 \times 81^2 \div 27^3 = (3)^?$

- (a) 3
- (b) 4
- (c) 5
- (d) 6
- (e) None of these

Q3.  $572 \div 26 \times 12 - 200 = (2)^?$

- (a) 5
- (b) 6
- (c) 7
- (d) 8
- (e) None of these

Q4.  $4\frac{1}{2} - 2\frac{5}{6} = ? - 1\frac{7}{12}$

- (a)  $3\frac{1}{4}$
- (b)  $3\frac{5}{12}$
- (c)  $2\frac{7}{12}$
- (d)  $3\frac{3}{4}$
- (e) None of these

Q5.  $36\% \text{ of } 245 - 40\% \text{ of } 210 = 10 - ?$

- (a) 4.2
- (b) 6.8
- (c) 4.9
- (d) 5.6

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(e) None of these

Q6.  $4003 \times 77 - 21015 = ? \times 116$

(a) 2477

(b) 2478

(c) 2467

(d) 2476

(e) None of these

Q7.  $[(5\sqrt{7} + \sqrt{7}) \times (4\sqrt{7} + 8\sqrt{7})] - (19)^2 = ?$

(a) 143

(b)  $72\sqrt{7}$

(c) 134

(d)  $70\sqrt{7}$

(e) None of these

Q8.  $(4444 \div 40) + (645 \div 25) + (3991 \div 26) = ?$

(a) 280.4

(b) 290.4

(c) 295.4

(d) 285.4

(e) None of these

Q9.  $\sqrt{33124} \times \sqrt{2601} - (83)^2 = (?)^2 + (37)^2$

(a) 37

(b) 33

(c) 34

(d) 28

(e) None of these

Q10.  $5\frac{17}{37} \times 4\frac{51}{52} \times 11\frac{1}{7} + 2\frac{3}{4} = ?$

(a) 303.75

(b) 305.75

(c)  $303\frac{3}{4}$

(d)  $305\frac{1}{4}$

(e) None of these

Q11.  $361 \times 250 \div 50 = 25 \times ?$

(a) 74.2

(b) 72.2

(c) 70.4

(d) 72.4

(e) 68.4

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Q12. 56% of 450 + ? = 300

- (a) 52
- (b) 48
- (c) 42
- (d) 56
- (e) 54

Q13. 40% of 250 = 50% of?

- (a) 200
- (b) 100
- (c) 150
- (d) 400
- (e) 420

Q14.  $81 + 20 \times 0.75 - 9 = ?$

- (a) 97
- (b) 107
- (c) 87
- (d) 77
- (e) 82

Q15.  $22440 \div \sqrt{?} = 34 \times 12$

- (a) 55
- (b) 3136
- (c) 65
- (d) 3025
- (e) 3020



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### Solutions

S1. Ans.(a)

Sol.

$$\sqrt{360 - 450 + 379} = \sqrt{289} = 17$$

S2. Ans.(c)

Sol.

$$3^7 = (3^2)^3 \times (3^4)^3 = 3^6 \times 3^8 \div 3^9 = 3^5$$

Or, ? = 5

S3. Ans.(b)

Sol.

$$2^7 = 572 \div 26 = 22 \times 12 = 264 - 200 = 64 = 2^6$$

Or, ? = 6

S4. Ans.(a)

Sol.

$$\begin{aligned} ? &= (4 + 1 - 2) + \left(\frac{1}{2} + \frac{7}{12} - \frac{5}{6}\right) \\ &= 3 + \left(\frac{6 + 7 - 10}{12}\right) = 3\frac{1}{4} \end{aligned}$$

S5. Ans.(e)

Sol.

$$\begin{aligned} 36\% \text{ of } 245 &= (40 - 4)\% \text{ of } 245 \\ &= \frac{2}{5} \times 245 - \frac{4 \times 245}{100} = 98 - 9.8 = 88.2 \\ 40\% \text{ of } 210 &= \frac{2}{5} \times 210 = 84 \\ \text{Difference} &= 88.2 - 84 = 4.2 \\ ? &= 10 - 4.2 = 5.8 \end{aligned}$$

S6. Ans.(d)

Sol.

$$\begin{aligned} ? \times 116 &= 4003 \times 77 - 21015 \\ \text{Or, } ? \times 116 &= 308231 - 21015 = 287216 \\ \text{Or, } ? \times 116 &= 287216 \\ \therefore ? &= \frac{287216}{116} = 2476 \end{aligned}$$

S7. Ans.(a)

Sol.

$$\begin{aligned} &[(5\sqrt{7} + \sqrt{7}) \times (4\sqrt{7} + 8\sqrt{7})] - (19)^2 \\ &= [20 \times 7 + 4 \times 7 + 8 \times 7 + 40 \times 7] - 361 \\ &= [140 + 28 + 56 + 280] - 361 \\ &= 504 - 361 = 143 \end{aligned}$$

S8. Ans.(b)

Sol.

$$\begin{aligned} ? &= (4444 \div 40) + (645 \div 25) + (3991 \div 26) \\ &= \frac{4444}{40} + \frac{645}{25} + \frac{3991}{26} \\ &= 111.1 + 25.8 + 153.5 = 290.4 \end{aligned}$$

S9. Ans.(e)

Sol.

$$\begin{aligned} (?)^2 + (37)^2 &= \sqrt{33124} \times \sqrt{2601} - (83)^2 \\ \text{Or, } (?)^2 + (37)^2 &= 182 \times 51 - (83)^2 \\ \text{Or, } (?)^2 + 1369 &= 9282 - 6889 = 2393 \\ \text{Or, } (?)^2 &= 2393 - 1369 = 1024 \end{aligned}$$

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$$\therefore ? = \sqrt{1024} = 32$$

S10. Ans.(b)

Sol.

$$\begin{aligned} ? &= 5\frac{17}{37} \times 4\frac{51}{52} \times 11\frac{1}{7} + 2\frac{3}{4} \\ &= \frac{202}{37} \times \frac{259}{52} \times \frac{78}{7} + \frac{11}{4} \\ &= \frac{202}{37} \times \frac{259}{7} \times \frac{3}{2} + \frac{11}{4} \\ &= 101 \times 3 + \frac{11}{4} = 303 + \frac{11}{4} = \frac{1212+11}{4} \\ &= \frac{1223}{4} = 305.75 \end{aligned}$$

S11. Ans.(b)

Sol.

$$\begin{aligned} 25 \times ? &= \frac{361 \times 250}{50} = 361 \times 5 \\ \Rightarrow ? &= \frac{361 \times 5}{25} = 72.2 \end{aligned}$$

S12. Ans.(b)

Sol.

$$\begin{aligned} 56\% \text{ of } 450 + ? &= 300 \\ \Rightarrow \frac{56 \times 450}{100} + ? &= 300 \\ \Rightarrow 252 + ? &= 300 \\ \Rightarrow ? &= 300 - 252 = 48 \end{aligned}$$

S13. Ans.(a)

Sol.

$$\begin{aligned} \frac{250 \times 40}{100} &= ? \times \frac{50}{100} \\ \Rightarrow ? \times 50 &= 250 \times 40 \\ \Rightarrow ? &= \frac{250 \times 40}{50} = 200 \end{aligned}$$

S14. Ans.(c)

Sol.

$$? = 81 + 15 - 9 = 87$$

S15. Ans.(d)

Sol.

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$$\frac{22440}{\sqrt{?}} = 34 \times 12$$

$$\Rightarrow \sqrt{?} = \frac{22440}{34 \times 12} = 55$$

$$\Rightarrow ? = 55 \times 55 = 3025$$

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