

Quiz Date: 8th August 2020

Directions (1-5): What value should come in the place of question mark (?) in the following questions?

Q1. $\frac{1}{4}$ of 420 + $\frac{3}{5}$ of 655 - 30% of 550 = ?

- (a) 345
- (b) 333
- (c) 444
- (d) 433
- (e) 233

Q2. $\frac{?}{60}$ of 720 - 60% of 20 = $\frac{1}{4}$ of 24

- (a) 3.5
- (b) 2.5
- (c) 1.5
- (d) 2
- (e) 3

Q3. $\sqrt{20\% \text{ of } 110 + ?\% \text{ of } 300} - 50\% \text{ of } 700 = 0$

- (a) 42333
- (b) 45000
- (c) 41250
- (d) 40826
- (e) 38455

Q4. $243 \times 729 = 2187 \times 3^?$

- (a) 4
- (b) 6
- (c) 5
- (d) 3
- (e) 8

Q5. $(? - \sqrt{32}) \div 5 = \frac{4}{5}$ of 1250

- (a) $50 + 4\sqrt{2}$
- (b) $500 + 4\sqrt{2}$
- (c) $5000 + 4\sqrt{2}$
- (d) $50000 + 4\sqrt{2}$
- (e) $5500 + 4\sqrt{2}$

Directions (6-10): What should come in place of the question mark (?) in following number series problems?

Q6. 170, 120, 50, 24, 10, ?

- (a) 2
- (b) 4
- (c) 0
- (d) 3
- (e) 1

Q7. 829, 918, 839, 908, 849, ?

- (a) 879
- (b) 898
- (c) 889
- (d) 890
- (e) 892

Q8. 77, 81, 95, 125, 177, ?

- (a) 279
- (b) 288
- (c) 257
- (d) 207
- (e) 238

Q9. 2, 4, 12, 48, 240, ?

- (a) 1680
- (b) 1200
- (c) 1920
- (d) 1240
- (e) 1440

Q10. 880, 736, 636, 572, 536, 520, ?

- (a) 524
- (b) 504
- (c) 516
- (d) 511
- (e) 519

Directions (11-15): What will come in place of question mark (?) in the following questions?

Q11. $(0.125)^3 \div (0.25)^2 \times (0.5)^2 = (0.5)^{?-3}$

- (a) 12
- (b) 18
- (c) 14
- (d) 10
- (e) 8



Q12. 36% of $420 - 56\%$ of $350 = ? - 94$

- (a) 48.2
- (b) 49.2
- (c) -138.8
- (d) -158.8
- (e) 38.2

Q13. $36 \times 15 - 56 \times 784 \div 112 = ?$

- (a) 138
- (b) 238
- (c) 158
- (d) 258
- (e) 148

Q14. $(8792 - 4136) \div ? = 145.5$

- (a) 38
- (b) 32
- (c) 42
- (d) 36
- (e) 48

Q15. $7365 + (5.4)^2 + \sqrt{?} = 7437.16$

- (a) 1894
- (b) 1681
- (c) 1764
- (d) 2025
- (e) 1849



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Solutions

S1. Ans.(b)

Sol.

$$? = \frac{1}{4} \times 420 + \frac{3}{5} \times 655 - \frac{30}{100} \times 550$$

$$? = 105 + 393 - 165$$

$$? = 333$$

S2. Ans.(c)

Sol.

$$\frac{?}{60} \times 720 - \frac{60}{100} \times 20 = \frac{1}{4} \times 24$$

$$\Rightarrow 12 \times ? = 18$$

$$\Rightarrow ? = 1.5$$

S3. Ans.(d)

Sol.

$$\sqrt{\frac{20}{100} \times 110 + \frac{?}{100} \times 300} = \frac{50}{100} \times 700$$

$$\Rightarrow \sqrt{22 + 3 \times ?} = 350$$

$$\Rightarrow ? = \frac{122478}{3}$$

$$\Rightarrow ? = 40826$$

S4. Ans.(a)

Sol.

$$2187 \times 3^? = 243 \times 729$$

$$\Rightarrow 3^? = \frac{(3)^5 \times (3)^6}{(3)^7}$$

$$\Rightarrow 3^? = 3^4$$

$$\Rightarrow ? = 4$$

S5. Ans.(c)

Sol.

$$(? - 4\sqrt{2}) = \frac{4}{5} \times 1250 \times 5$$

$$? = 5000 + 4\sqrt{2}$$

$$? = (5000 + 4\sqrt{2})$$

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S6. Ans.(d)

Sol.

Pattern is

$$13^2 + 1, 11^2 - 1, 7^2 + 1, 5^2 - 1, 3^2 + 1, 2^2 - 1$$

(Squares of prime numbers)

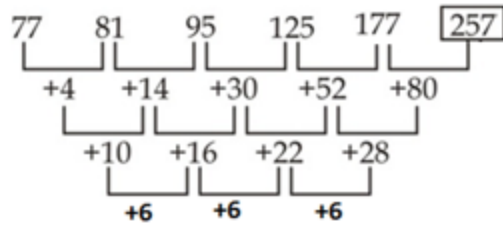
S7. Ans.(b)

Sol.

Pattern is +89, -79, +69, -59, +49

S8. Ans.(c)

Sol.



S9. Ans.(e)

Sol.

The pattern is

$\times 2, \times 3, \times 4, \times 5, \times 6$

$\therefore ? = 240 \times 6 = 1440$

S10. Ans.(c)

Sol.

Pattern is

$$880 - 12^2 = 880 - 144 = 736$$

$$736 - 10^2 = 736 - 100 = 636$$

$$636 - 8^2 = 636 - 64 = 572$$

$$572 - 6^2 = 572 - 36 = 536$$

$$536 - 4^2 = 536 - 16 = 520$$

$$520 - 2^2 = 520 - 4 = 516$$

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S11. Ans. (d)

Sol.

$$(0.5)^9 \div (0.5)^4 \times (0.5)^2 = (0.5)^{? - 3}$$

$$\text{or, } 9 - 4 + 2 = ? - 3$$

$$\text{or, } ? = 10$$

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S12. Ans. (b)

Sol.

$$? = 151.2 - 196 + 94$$

$$\text{or, } ? = 49.2$$

S13. Ans. (e)

Sol.

$$? = 540 - 56 \times 7$$

$$\text{or, } ? = 148$$

S14. Ans. (b)

Sol.

$$? = \frac{4656}{145.5} = 32$$

S15. Ans. (e)

Sol.

$$\sqrt{?} = 7437.16 - 7365 - 29.16 = 43$$

or, ? = 1849

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