

Quiz Date: 17th August 2020

Directions (1-15): What approximate value will come in place of question mark (?) in the following questions ? (You are not expected to calculate the exact value).

Q1. $180\% \text{ of } 25501 + 50\% \text{ of } 28999 = ?$

- (a) 62400
- (b) 64000
- (c) 60400
- (d) 64200
- (e) 60600

Q2. $171.995 \times 14.995 \div 25 = ?$

- (a) 103
- (b) 115
- (c) 110
- (d) 125
- (e) 118

Q3. $175 \times 28 + 275 \times 27.98 = ?$

- (a) 11800
- (b) 12600
- (c) 12800
- (d) 11600
- (e) 16200

Q4. $324.995 \times 15.98 \div 4.002 + 36.88 = ?$

- (a) 1300
- (b) 1230
- (c) 1340
- (d) 1380
- (e) 1390

Q5. $1164 \times 128 \div 8.008 + 969.007 = ?$

- (a) 18800
- (b) 19393
- (c) 19593
- (d) 19200
- (e) 20293

Q6. $\sqrt{624.98} + \sqrt{729.25} = ?$

- (a) 58
- (b) 56
- (c) 52
- (d) 61

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(e) 62

Q7. 69.008% of 699.98 + 32.99% of 399.999 = ?

- (a) 615
- (b) 645
- (c) 675
- (d) 715
- (e) 815

Q8. $(9321 + 5406 + 1001) \div (498 + 929 + 660) = ?$

- (a) 13.5
- (b) 4.5
- (c) 2.5
- (d) 7.5
- (e) 21.5

Q9. 63.5% of 8924.2 + ?% of 5324.4 = 6827.5862

- (a) 36
- (b) 52
- (c) 13
- (d) 21
- (e) 41

Q10. 67% of 801 - 231.17 = ? - 23% of 789

- (a) 490
- (b) 440
- (c) 540
- (d) 520
- (e) 590

Q11. $499.99 + 1999 \div 39.99 \times 50.01 = ?$

- (a) 3200
- (b) 2700
- (c) 3000
- (d) 2500
- (e) 2400

Q12. $441.01 - 232.99 + 1649.99 = ? + 1225.92$

- (a) 600
- (b) 630
- (c) 660
- (d) 690
- (e) 720



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Q13. $(216\% \text{ of } 99)^{\frac{1}{3}} + (43\% \text{ of } 601)^{\frac{1}{2}} = ?$

- (a) 18
- (b) 22
- (c) 26
- (d) 30
- (e) 33

Q14. $89.988\% \text{ of } 699.9 + 50.002\% \text{ of } 999.99 - 170.015 = ?$

- (a) 990
- (b) 900
- (c) 920
- (d) 960
- (e) 860

Q15. $(49.99)^2 - (8.9)^2 - (15.9)^2 = ?$

- (a) 2165
- (b) 2000
- (c) 1965
- (d) 1920
- (e) 1885

S1. Ans.(c)

Sol.

$$? \simeq 1.8 \times 25500 + \frac{50}{100} \times 29000$$
$$\simeq 60,400$$

S2. Ans.(a)

Sol.

$$? \simeq 172 \times 15 \div 25$$
$$\simeq 103$$

S3. Ans.(b)

Sol.

$$? \simeq 175 \times 28 + 275 \times 28$$
$$\simeq 12,600$$

S4. Ans.(c)

Sol.



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Solutions

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$$\begin{aligned} ? &\simeq 325 \times 16 \div 4 + 37 \\ &\simeq 1337 \simeq 1340 \end{aligned}$$

S5. Ans.(c)

Sol.

$$\begin{aligned} ? &\simeq 1164 \times 128 \div 8 + 969 \\ &\simeq 19593 \end{aligned}$$

S6. Ans.(c)

Sol.

$$\begin{aligned} ? &\simeq 25 + 27 \\ &\simeq 52 \end{aligned}$$

S7. Ans.(a)

Sol.

$$\begin{aligned} ? &\simeq \frac{69}{100} \times 700 + \frac{33}{100} \times 400 \\ &\simeq 483 + 132 \\ &\simeq 615 \end{aligned}$$

S8. Ans.(d)

Sol.

$$\begin{aligned} ? &\simeq \frac{(9320 + 5400 + 1000)}{(500 + 930 + 660)} \\ &\simeq 7.5 \end{aligned}$$

S9. Ans.(d)

Sol.

$$\begin{aligned} \frac{64}{100} \times 8924 + \frac{?}{100} \times 5324 &\simeq 6828 \\ \Rightarrow ? &\simeq 21 \end{aligned}$$

S10. Ans.(a)

Sol.

$$\begin{aligned} ? &\approx \frac{67 \times 800}{100} - 231 + \frac{23 \times 790}{100} \\ &\approx 536 - 231 + 181.7 \\ &\approx 490 \end{aligned}$$

S11. Ans.(c)

Sol.

$$\begin{aligned} ? &\approx 500 + 2000 \div 40 \times 50 \\ &\approx 500 + \frac{2000}{40} \times 50 \approx 500 + 2500 \approx 3000 \end{aligned}$$

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S12. Ans.(b)

Sol.

$$441 - 233 + 1650 = ? + 1226$$

$$\Rightarrow 1858 \approx ? + 1226$$

$$\Rightarrow ? \approx 1858 - 1226 \approx 632$$

∴ Required answer = 630

S13. Ans.(b)

Sol.

$$\begin{aligned} ? &\approx \left(\frac{100 \times 216}{100}\right)^{\frac{1}{3}} + \left(\frac{600 \times 43}{100}\right)^{\frac{1}{2}} \\ &\approx (216)^{\frac{1}{3}} + (256)^{\frac{1}{2}} = 6 + 16 = 22 \end{aligned}$$

S14. Ans.(d)

Sol.

$$\begin{aligned} ? &\approx \frac{700 \times 90}{100} + \frac{1000 \times 50}{100} - 170 \\ &\approx 630 + 500 - 170 \approx 960 \end{aligned}$$

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S15. Ans.(a)

Sol.

$$\begin{aligned} ? &\approx (50)^2 - (9)^2 - (16)^2 \\ &\approx 2500 - 81 - 256 \approx 2165 \end{aligned}$$

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