

Approximation Most Asked Common Questions (Last 5 years)

Directions (1-10): Find the approximate value of (?) in the following questions.

Q1. 44.04% of $349.98 + 205.01\%$ of $140.01 = (?)^2$

- (a) 29
- (b) 361
- (c) 19
- (d) 441
- (e) 21

Q2. 125.09% of $440.01 + 74.98\%$ of $839.98 + \sqrt[3]{7.99} = 39.89 \times ?$

- (a) 40
- (b) 30
- (c) 50
- (d) 60
- (e) 70

Q3. $\frac{?}{14.09} + (11.97)^2 - \sqrt{1936.01} = (15.98)^2$

- (a) 2164
- (b) 2196
- (c) 2118
- (d) 2184
- (e) 2124

Q4. $?%$ of $299.71 = (21.03)^2 + (18.89)^2 + (6.03)^3 + 2.01$

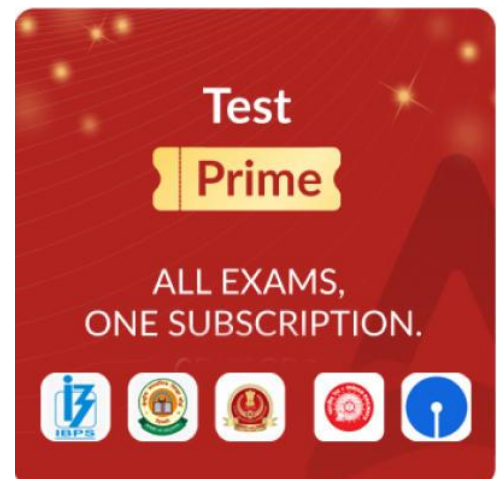
- (a) 225
- (b) 280
- (c) 250
- (d) 325
- (e) 340

Q5. $(27.02)^2 + 2669 \div 2.98 - 218.9 = 1869.6 - ?$

- (a) 470
- (b) 420
- (c) 510
- (d) 540
- (e) 500


Q6. $17998 \div 4.99 \times 1.52 + 7199.2 - 3448.6 = ?$

- (a) 9250
- (b) 9080
- (c) 9100
- (d) 9150
- (e) 9200



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Q7. $3599 \div 8.98 + 1244.9 \times 2.98 + (17.99)^2 = ?$

- (a) 4400
- (b) 4460
- (c) 4500
- (d) 4550
- (e) 4360

Q8. $17.99 + \frac{1}{2.99} \text{ of } 26.99 - \frac{1}{1.99} = ?$

- (a) $25\frac{1}{2}$
- (b) $26\frac{3}{4}$
- (c) $24\frac{1}{2}$
- (d) $24\frac{3}{4}$
- (e) None of these

Q9. $51.99 \div \frac{1}{1.99} \text{ of } 7.99 + \frac{3}{5} \times 1\frac{2}{3} = ?$

- (a) 14
- (b) 12
- (c) 13
- (d) 15
- (e) None of these

Q10. $\sqrt[2]{\frac{24.99}{4}} \div \sqrt[3]{\frac{125.08}{8}} + 3\frac{9}{10} = ? - 5\frac{1}{10}$

- (a) 14
- (b) 10
- (c) 8
- (d) 12
- (e) 15

Solutions

S1. Ans.(e)

Sol. $\frac{44}{100} \times 350 + \frac{205}{100} \times 140 \approx (?)^2$
 $\Rightarrow 154 + 287 \approx (?)^2$
 $\Rightarrow 441 \approx (?)^2$
 $\Rightarrow ? = 21$

S2. Ans.(a)

Sol. $\frac{125}{100} \times 440 + \frac{75}{100} \times 840 + 2 = 40 \times ?$
 $550 + 630 + 2 = 40 \times ?$
 $? \approx 30$

S3. Ans.(d)

$$\text{Sol. } \frac{?}{14} + 12^2 - \sqrt{1936} = (16)^2$$

$$\frac{?}{14} = 256 + 44 - 144$$

$$\frac{?}{14} = 156$$

$$? = 2184$$

S4. Ans.(e)

$$\text{Sol. } \frac{?}{100} \times 300 \approx (21)^2 + (19)^2 + (6)^3 + 2.01$$

$$? \times 3 = 441 + 361 + 216 + 2$$

$$? = \frac{1020}{3} = 340$$

S5. Ans.(a)

$$\text{Sol. } (27)^2 + 2670 \div 3 - 219 = 1870 - ?$$

$$\approx 729 + 890 - 219 = 1870 - ?$$

$$\approx 1400 = 1870 - ?$$

$$\approx ? = 1870 - 1400 = 470$$

S6. Ans.(d)

$$\text{Sol. } ? \approx 18000 \div 5 \times 1.52 + 7200 - 3450$$

$$? \approx 3600 \times 1.5 + 3750$$

$$? \approx 5400 + 3750$$

$$? \approx 9150$$

S7. Ans.(b)

$$\text{Sol. } ? \approx 3600 \div 9 + 1245 \times 3 + 324$$

$$? \approx 400 + 3735 + 324$$

$$? \approx 4460$$

S8. Ans.(e)

$$\text{Sol. } ? \approx 27 - \frac{1}{2}$$

$$? \approx 26\frac{1}{2}$$

S9. Ans.(a)

$$\text{Sol. } ? \approx 52 \div 4 + \frac{3}{5} \times \frac{5}{3}$$

$$? \approx 14$$

S10. Ans.(b)

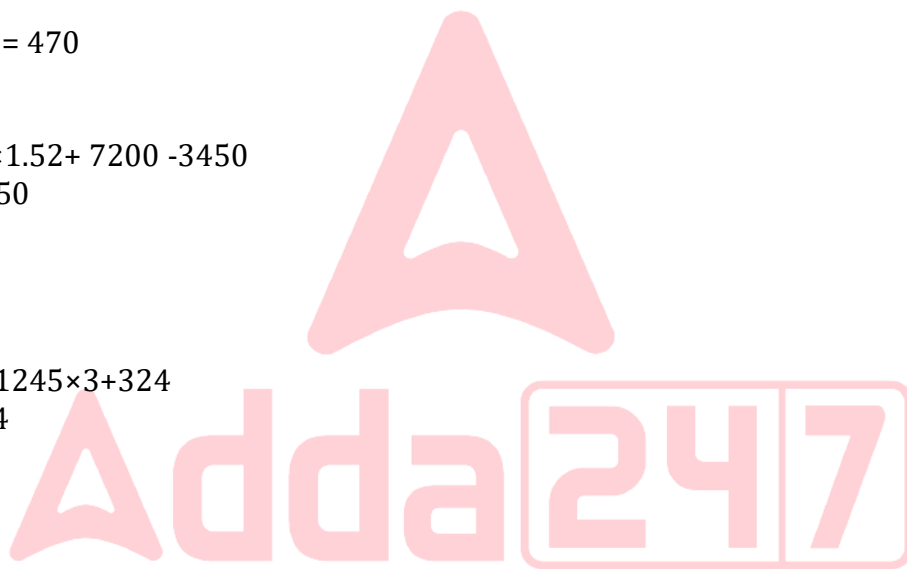
Sol.

$$\sqrt[2]{\frac{25}{4}} \div \sqrt[3]{\frac{125}{8}} + 3\frac{9}{10} = ? - 5\frac{1}{10}$$

$$\frac{5}{2} \times \frac{2}{5} + \frac{39}{10} + \frac{51}{10} = ?$$

$$? = \frac{10+39+51}{10}$$

$$? = 10$$



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