

Quiz Date: 3rd July 2020

Directions (1-15): What should come in place of question mark (?) in the following simplification problems ?

Q1. $46\% \text{ of } 450 + 84\% \text{ of } 525 - 55\% \text{ of } 880 = ?$

- (a) 164
- (b) 166
- (c) 170
- (d) 162
- (e) 160

Q2. $\sqrt{256 + \frac{4}{5} \text{ of } 400} + \frac{3}{4} \text{ of } ? = \frac{3}{13} \text{ of } 208$

- (a) 36
- (b) 32
- (c) 34
- (d) 30
- (e) 28

Q3. $(-3)^{(-2)^{(-2)}} \div (3)^{(-2)^{(-2)}} = ?$

- (a) 1
- (b) -1
- (c) 3
- (d) -3
- (e) None of these

Q4. $? \% \text{ of } 250 - 48\% \text{ of } 250 = ?$

- (a) 70
- (b) 75
- (c) 85
- (d) 72
- (e) None of these

Q5. $\sqrt{46225} \div (3125)^{\frac{1}{5}} = ? - 215$

- (a) 258
- (b) 255
- (c) 218
- (d) 235
- (e) 248

Q6. $54\% \text{ of } 550 + 42\% \text{ of } 425 - 34\% \text{ of } 650 = ?$

- (a) 252.5
- (b) 245.5
- (c) 256.5

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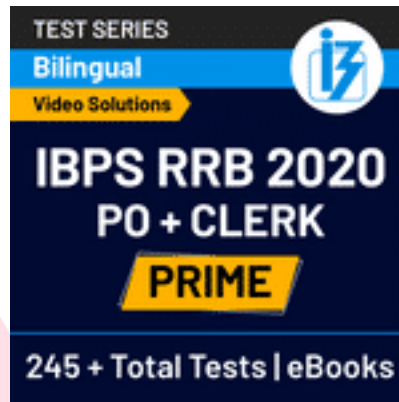
- (d) 254.5
(e) None of these

Q7. $(2.7) \times (0.3)^7 = (0.3)^? \times (0.081)^2$

- (a) 17
(b) 2
(c) 18
(d) 3
(e) None of these

Q8. $534.496 + 52.642 - 398.818 = ? + 58.381$

- (a) 126.631
(b) 122.069
(c) 129.939
(d) 132.788
(e) None of these



Q9. $26 \times 12 - 5543 \div 23 = ? - 224$

- (a) 281
(b) 287
(c) 292
(d) 295
(e) None of these

Q10. $(\sqrt{7} - 3)^2 = ? - \sqrt{252}$

- (a) $6\sqrt{7} + 9$
(b) $6\sqrt{7}$
(c) $16 - 4\sqrt{7}$
(d) 16
(e) -2

Q11. $55\% \text{ of } 280 + 60\% \text{ of } 555 = ?$

- (a) 487
(b) 1014

- (c) 1011
(d) 817
(e) None of these

Q12. $\frac{4}{9}$ of $\frac{7}{11}$ of $\frac{121}{12}$ of 81 = ?

- (a) 120
(b) 119
(c) 231
(d) 108
(e) None of these

Q13. $2\frac{2}{3} + 3\frac{3}{4} \times 2\frac{2}{5} \div 6\frac{3}{5} = ?$

- (a) $4\frac{1}{33}$
(b) $4\frac{2}{33}$
(c) 42
(d) 18
(e) $1\frac{23}{36}$

Q14. $5\frac{1}{6} + 3\frac{2}{5} - 4\frac{11}{15} = ? + 1\frac{1}{3}$

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

Q15. $0.09 \times 0.1 - 0.009 \div 10 + 0.09 = ?$

- (a) 0.01009
(b) 0.0101
(c) 0.19
(d) 0.109
(e) 0.0981



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Solutions

S1. Ans.(a)

$$\text{Sol. ?} = \frac{46 \times 450}{100} + \frac{84 \times 525}{100} - \frac{55 \times 880}{100}$$

$$? = 207 + 441 - 484$$

$$? = 164$$

S2. Ans.(b)

$$\text{Sol. } \sqrt{256 + 320} + \frac{3}{4} \times ? = 3 \times 16$$

$$\sqrt{576} + \frac{3}{4} \times ? = 48$$

$$\frac{3}{4} \times ? = 48 - 24$$

$$? = 24 \times \frac{4}{3}$$

$$? = 32$$

S3. Ans.(a)

$$\text{Sol. } (-3)^4 \div 3^4 = 1$$

S4. Ans.(e)

$$\text{Sol. } ? \times (2.5 - 1) = 48 \times 2.5$$

$$\text{or, } ? = \frac{120}{1.5} = 80$$

S5. Ans.(a)

$$\text{Sol. } 215 \div 5 = ? - 215$$

$$\text{or } ? = 43 + 215$$

$$? = 258$$

S6. Ans.(d)

Sol.

$$? = \frac{54}{100} \times 550 + \frac{42}{100} \times 425 - \frac{34}{100} \times 650$$

$$? = 297 + 178.5 - 221$$

$$= 254.5$$



S7. Ans.(b)

Sol.

$$\Rightarrow \frac{27}{10} \times \frac{3^7}{10^7} = (0.3)^? \times \frac{3^8}{10^6}$$

$$\Rightarrow \left(\frac{3}{10}\right)^2 = (0.3)^?$$

$$\Rightarrow ? = 2$$

S8. Ans.(c)

Sol.

$$? = 5188.32 - 58.381$$

$$? = 129.939$$

S9. Ans.(d)

$$\text{Sol. } ? = 536 - 241$$

$$= 295$$

S10. Ans.(d)

$$\text{Sol. } ? = 7 + 9 - 6\sqrt{7} + 6\sqrt{7}$$

$$= 16$$

S11. Ans.(a)

Sol.

$$? = \frac{55}{100} \times 280 + \frac{60}{100} \times 555 = 487$$

S12. Ans.(c)

Sol.

$$? = \frac{4}{9} \times \frac{7}{11} \times \frac{121}{12} \times 81 = 231$$

S13. Ans.(a)

Sol.

$$? = \frac{8}{3} + \frac{15}{4} \times \frac{12}{5} \times \frac{5}{33} = \frac{133}{33} = 4\frac{1}{33}$$

S14. Ans.(d)

Sol.

$$? = (5 + 3 - 4 - 1) + \left(\frac{1}{6} + \frac{2}{5} - \frac{11}{15} - \frac{1}{3}\right) = 3 - \frac{1}{2} = \frac{5}{2} = 2\frac{1}{2}$$

S15. Ans.(e)

Sol.

$$? = 0.009 - 0.0009 + 0.09$$

$$? = 0.0981$$

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