

Course: RBI Assistant Mains

Subject: Simplification

Time: 10 Minutes

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Directions (1-15): निम्नलिखित सरलीकरण प्रश्नों में प्रश्नवाचक चिह्न (?) के स्थान पर क्या मान आना चाहिए?

Q1. 450 का 46% + 525 का 84% - 880 का 55% = ?

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

L1Difficulty 3

QTagsSimplification

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

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

L1Difficulty 3

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

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

L1Difficulty 3

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Q4. 250 का ? % - 250 का 48% = ?

- (a) 70
- (b) 75

- (c) 85
(d) 72
(e) इनमें से कोई नहीं

L1Difficulty 3

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

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

L1Difficulty 3

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Q6. 550 का 54% + 425 का 42% - 650 का 34% = ?

- (a) 252.5
(b) 245.5
(c) 256.5
(d) 254.5
(e) None of these

L1Difficulty 3

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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

L1Difficulty 3

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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

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

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

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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

L1Difficulty 3

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Q11. 280 का 55% + 555 का 60% = ?

- (a) 487
- (b) 1014
- (c) 1011
- (d) 817
- (e) इनमें से कोई नहीं

L1Difficulty 3

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

- (a) 120
- (b) 119
- (c) 231
- (d) 108
- (e) इनमें से कोई नहीं

L1Difficulty 3

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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) $1\frac{23}{36}$

L1Difficulty 3

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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

L1Difficulty 3

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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

L1Difficulty 3

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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.

$$\begin{aligned} ? &= \frac{54}{100} \times 550 + \frac{42}{100} \times 425 - \frac{34}{100} \times 650 \\ &= 297 + 178.5 - 221 \\ &= 254.5 \end{aligned}$$

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)

$$\begin{aligned} \text{Sol. } ? &= 536 - 241 \\ &= 295 \end{aligned}$$

S10. Ans.(d)

$$\begin{aligned}\text{Sol. ?} &= 7 + 9 - 6\sqrt{7} + 6\sqrt{7} \\ &= 16\end{aligned}$$

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.

$$? = 0.009 - 0.0009 + 0.09$$

$$? = 0.0981$$