Subject: : Practice Set

Time:10 Minutes
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Directions (1-15): निम्नलिखित प्रश्नों में प्रश्नवाचक चिह्न (?) के स्थान पर क्या मान आएगा-

Q1. $\sqrt{360 - 225 \times 2 + 379}$ = ?
(a) 17
(b) 19
(c) 279
(d) 289
(e) इनमें से कोई नहीं
L1Difficulty 2
QTags Simplification
QCreator Deepak Rohilla

Q2. $9^3 \times 81^2 \div 27^3 = (3)^?$
(a) 3
(b) 4
(c) 5
(d) 6
(e) इनमें से कोई नहीं
L1Difficulty 2
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Q3. $572 \div 26 \times 12 - 200 = (2)^?$
(a) 5
(b) 6
(c) 7
(d) 8
(e) इनमें से कोई नहीं
L1Difficulty 2
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Q4. $4\frac{1}{2} - 2\frac{5}{6} = ? - 1\frac{7}{12}$
(a) $3\frac{1}{4}$

(b) $3\frac{5}{12}$

(c) $2\frac{7}{12}$

(d) $3\frac{3}{4}$

(e) इनमें से कोई नहीं

L1Difficulty 2

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Q5. 36% of 245 – 40% of 210 = 10 – ?
(a) 4.2
(b) 6.8
(c) 4.9
(d) 5.6
(e) इनमें से कोई नहीं

L1Difficulty 2

QTags Simplification

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Q6. $4003 \times 77 - 21015 = ? \times 116$
(a) 2477
(b) 2478
(c) 2467
(d) 2476
(e) इनमें से कोई नहीं

L1Difficulty 2

QTags Simplification

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Q7. $[(5\sqrt{7} + \sqrt{7}) \times (4\sqrt{7} + 8\sqrt{7})] - (19)^2 = ?$
(a) 143
(b) $72\sqrt{7}$
(c) 134
(d) $70\sqrt{7}$
(e) इनमें से कोई नहीं

L1Difficulty 2

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Q8. $(4444 \div 40) + (645 \div 25) + (3991 \div 26) = ?$
(a) 280.4
(b) 290.4

(c) 295.4
(d) 285.4
(e) इनमें से कोई नहीं
L1Difficulty 2
QTags Simplification
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Q9. $\sqrt{33124} \times \sqrt{2601} - (83)^2 = (?)^2 + (37)^2$
(a) 37
(b) 33
(c) 34
(d) 28
(e) इनमें से कोई नहीं
L1Difficulty 2
QTags Simplification
QCreator Deepak Rohilla

Q10. $5\frac{17}{37} \times 4\frac{51}{52} \times 11\frac{1}{7} + 2\frac{3}{4} = ?$
(a) 303.75
(b) 305.75
(c) $303\frac{3}{4}$
(d) $305\frac{1}{4}$
(e) इनमें से कोई नहीं
L1Difficulty 2
QTags Simplification
QCreator Deepak Rohilla

Q11.   361 × 250 ÷ 50 = 25 ×?
(a) 74.2
(b) 72.2
(c) 70.4
(d) 72.4
(e) 68.4
L1Difficulty 2
QTags Simplification
QCreator Deepak Rohilla

Q12.   56% of 450 +? = 300
(a) 52
(b) 48
(c) 42
(d) 56
(e) 54
L1Difficulty 2

Q13.   40% of 250 = 50% of?
(a) 200
(b) 100
(c) 150
(d) 400
(e) 420

Q14.   81 + 20 × 0.75 – 9 =?
(a) 97
(b) 107
(c) 87
(d) 77
(e) 82

Q15. $22440 \div \sqrt{?} = 34 \times 12$
(a) 55
(b) 3136
(c) 65
(d) 3025
(e) 3020

Solutions

S1. Ans.(a)
Sol. $\sqrt{360 - 450 + 379} = \sqrt{289} = 17$

S2. Ans.(c)
Sol. $3^? = (3^2)^3 \times (3^4)^3 = 3^6 \times 3^8 \div 3^9 = 3^5$
Or, ? = 5

S3. Ans.(b)

$2^? = 572 \div 26 = 22 \times 12 = 264 - 200 = 64 = 2^6$

Or, ? = 6

Sol.

S4. Ans.(a)

$? = (4 + 1 - 2) + \left(\frac{1}{2} + \frac{7}{12} - \frac{5}{6}\right)$

$= 3 + \left(\frac{6 + 7 - 10}{12}\right) = 3\frac{1}{4}$

Sol.

S5. Ans.(e)

36% of 245 = (40 – 4)% of 245

$= \frac{2}{5} \times 245 - \frac{4 \times 245}{100} = 98 - 9.8 = 88.2$

40% of 210 $= \frac{2}{5} \times 210 = 84$

Difference = 88.2 – 84 = 4.2

? = 10 – 4.2 = 5.8

Sol.

S6. Ans.(d)

Sol.

? × 116 = 4003 × 77 – 21015

Or, ? × 116 = 308231 – 21015 = 287216

Or, ? × 116 = 287216

$\therefore ? = \frac{287216}{116} = 2476$

S7. Ans.(a)

Sol.

$$\left[(5\sqrt{7} + \sqrt{7}) \times (4\sqrt{7} + 8\sqrt{7})\right] - (19)^2$$
$$= [20 \times 7 + 4 \times 7 + 8 \times 7 + 40 \times 7] - 361$$
$$= [140 + 28 + 56 + 280] - 361$$
$$= 504 - 361 = 143$$

S8. Ans.(b)

Sol.

$? = (4444 \div 40) + (645 \div 25) + (3991 \div 26)$

$$= \frac{4444}{40} + \frac{645}{25} + \frac{3991}{26}$$
$$= 111.1 + 25.8 + 153.5 = 290.4$$

S9. Ans.(e)

Sol.

$$(?)^2 + (37)^2 = \sqrt{33124} \times \sqrt{2601} - (83)^2$$

Or, $(?)^2 + (37)^2 = 182 \times 51 - (83)^2$

Or, $(?)^2 + 1369 = 9282 - 6889 = 2393$

Or, $(?)^2 = 2393 - 1369 = 1024$

$\therefore ? = \sqrt{1024} = 32$

S10. Ans.(b)

Sol.

$? = 5\frac{17}{37} \times 4\frac{51}{52} \times 11\frac{1}{7} + 2\frac{3}{4}$

$$= \frac{202}{37} \times \frac{259}{52} \times \frac{78}{7} + \frac{11}{4}$$

$$= \frac{202}{37} \times \frac{259}{7} \times \frac{3}{2} + \frac{11}{4}$$

$$= 101 \times 3 + \frac{11}{4} = 303 + \frac{11}{4} = \frac{1212 + 11}{4}$$

$$= \frac{1223}{4} = 305.75$$

S11. Ans.(b)

$$25 \times ? = \frac{361 \times 250}{50} = 361 \times 5$$

$$\Rightarrow ? = \frac{361 \times 5}{25} = 72.2$$

Sol.

S12. Ans.(b)

56% of 450 + ? = 300

$\Rightarrow \frac{56 \times 450}{100} + ? = 300$

$\Rightarrow 252 + ? = 300$

$\Rightarrow ? = 300 - 252 = 48$

Sol.

S13. Ans.(a)

$\frac{250 \times 40}{100} = ? \times \frac{50}{100}$

$\Rightarrow ? \times 50 = 250 \times 40$

$\Rightarrow ? = \frac{250 \times 40}{50} = 200$

Sol.

S14. Ans.(c)

Sol.

? = 81 + 15 - 9 = 87

S15. Ans.(d)

$$\frac{22440}{\sqrt{?}} = 34 \times 12$$

$$\Rightarrow \sqrt{?} = \frac{22440}{34 \times 12} = 55$$

Sol. $\Rightarrow ? = 55 \times 55 = 3025$