Course: SBI PO Pre

Subject: Simplification

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

Q1. $\sqrt{1225} \div \sqrt[3]{343} \times 45\%$ of $760 = ?$
(a) 1170
(b) 1710
(c) 1510
(d) 1700
(e) 1720
L1Difficulty 2
QTagsSimplification
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Q2. 175% of $460 + 110\%$ of $170 + 2^? = 1000$
(a) 3
(b) 4
(c) 5
(d) 2
(e) 1
L1Difficulty 2
QTagsSimplification
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Q3. $18^{7.9} \times 3^{0.1} \times 6^{0.1} \div (3^4 \times 6^4) = 18^?$
(a) 1
(b) 2
(c) 3
(d) 4
(e) 5
L1Difficulty 2
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Q4. $3\frac{1}{7} + 2\frac{3}{5} + 7\frac{1}{5} - 5\frac{3}{7} - \frac{18}{35} = \frac{35}{?}$
(a) 3

(b) 5
(c) 7
(d) 9
(e) 11

Q5. $36\% \ of \ 245 - 40\% \ of \ 10 = 10- \ ?$
(a) 84.2
(b) 6.8
(c) 74.2
(d) - 75.6
(e) -74.2

Q6. $(2\times3)^3 \div (4\times9)^2 \times (27\times8)^2 = (6)^?$
(a) 5
(b) 6
(c) 3
(d) 8
(e) 7

Q7. $454.58 - 376.89 + 121.45 - 95.42 = ?$
(a) 102.22
(b) 103.72
(c) 91.72
(d) 92.32
(e) 104.42

Q8. $\sqrt{576} \div (4)^2 \times 7.4 + (7)^3 - 231 = ?$
(a) 123.9
(b) 121.1
(c) 111.4
(d) 122.1
(e) 123.1

Q9. $[(84)^2 \div 28 \times 12] \div 24 = 7 \times ?$
(a) 15
(b) 17
(c) 18
(d) 21
(e) 24

Q10. $(7.9\% \text{ of } 134) - (3.4\% \text{ of } 79) = ?$
(a) 8.1
(b) 7.9
(c) 8.6
(d) 7.3
(e) 6.8

Q11. 55% of 960 + 65% of 1000 = ?% of 2000
(a) 58.9
(b) 53.7
(c) 61.6
(d) 63.5
(e) 59.8

Q12. $7^{2.3} \times 49^{4.7} \times 63^{3.4} \times 81^{5.85} = 63^?$
(a) 16.25
(b) 15.1
(c) 13.4
(d) 18.9
(e) 14.8

Q13. $?^2 + 65^2 = (160)^2 - (90)^2 - 7191$
(a) 75
(b) 77
(c) 79
(d) 81
(e) 78
L1Difficulty 2
QTagsSimplification
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Q14. $\left(\sqrt{3} - 2\right)^2 = ? -\sqrt{12} - \sqrt{36}$
(a) 13-2√3
(b) 13
(c) 1
(d) 13-4√3
(e) 14
L1Difficulty 2
QTagsSimplification
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Q15. $3\frac{1}{4} + 2\frac{1}{2} - 1\frac{5}{6} = \frac{?^2}{10} + 1\frac{5}{12}$
(a) 25
(b) √5
(c) 625
(d) 15
(e) 5
L1Difficulty 2
QTagsSimplification
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Solutions

S1. Ans.(b)
Sol. $35 \div 7 \times 342 = ?$
Or, ? = 1710

S2. Ans.(a)
Sol. $805 + 187 + 2^? = 1000$
Or, $2^? = 8$
Or, ? = 3

S3. Ans.(d)
Sol. $18^? = 18^{7.9} \times 18^{0.1} \div 18^4$
Or, ? = 7.9 + 0.1 - 4 = 4

S4. Ans.(b)
Sol. $\frac{35}{?} = \frac{22}{7} + \frac{13}{5} + \frac{36}{5} - \frac{38}{7} - \frac{18}{35} = \frac{245}{35}$
Or, $? = \frac{35 \times 35}{245} = 5$

S5. Ans.(e)
Sol. $88.2 - 4 = 10 - ?$
Or, ? = -74.2

S6. Ans.(a)
Sol. $(6)^? = (6)^3 \div 6^4 \times 6^6$
$\Rightarrow (6)^? = 6^{3-4+6}$
$\Rightarrow ? = 5$

S7. Ans.(b)
Sol. ? = 576.03 - 472.31
= 103.72

S8. Ans.(e)
Sol. ? = 24 ÷ 16×7.4 + 343 - 231
= 11.1 + 112
= 123.1

S9. Ans.(c)
Sol. $7 \times ? = \frac{84 \times 84}{28} \times 12 \times \frac{1}{24}$
? = 18

S10. Ans.(b)
Sol. $? = \frac{7.9}{100} \times 134 - \frac{3.4}{100} \times 79$
= 7.9

S11. Ans.(a)
Sol.
$$528 + 650 = 20 \times ?$$
$$? = 58.9$$

S12. Ans.(b)

$7^{2.3} \times 7^{9.4} \times 7^{3.4} \times 9^{3.4} \times 9^{11.7}$

$\Rightarrow 7^{15.1} \times 9^{15.1} = 63^{15.1}$

Sol. $\therefore ? = 15.1$

S13. Ans.(e)

$?^2 = 10309 - 4225$

$?^2 = 6084$

$? = 78$

Sol.

S14. Ans.(a)

$3 + 4 - 4\sqrt{3} = ? -2\sqrt{3} - 6$

$? = 2\sqrt{3} - 4\sqrt{3} + 6 + 7$

$= 13 - 2\sqrt{3}$

Sol.

S15. Ans.(e)

$\dfrac{13}{4} + \dfrac{5}{2} - \dfrac{11}{6} - \dfrac{17}{12} = \dfrac{?^2}{10}$

$\Rightarrow \dfrac{39 + 30 - 22 - 17}{12} = \dfrac{?^2}{10}$

$\Rightarrow ?^2 = \dfrac{30 \times 10}{6 \times 2}$

$? = 5$

Sol.