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Simplification Questions for RBI Assistant Exams.

RBI Assistant Quiz 4

Directions: What will come in place of question mark (?) in the following questions?

1. $(2\sqrt{392} - 35) + (\sqrt{8} - 7)^2 = ?^2$

A. – 4 B. 22 C. 13
D. 4 E. None of these

2. **94736 + 43693 + 25638 = ?**

A. 160546 B. 164076 C. 165046
D. 160467 E. None of these

3. $3\frac{1}{4} + 7\frac{1}{6} - 5\frac{1}{8} = ? + 2\frac{1}{12}$

A. $3\frac{9}{48}$ B. $3\frac{5}{24}$ C. $2\frac{5}{24}$
D. $2\frac{5}{12}$ E. None of these

4. **– 224 + (– 314) × (– 9) = ?**

A. – 547 B. 2602 C. + 547
D. – 2602 E. None of these

5. $\sqrt{7 + \sqrt{64} + \sqrt{289}} = (?)^2 - 21$

A. 6 B. 5 C. 4
D. 8 E. 7

6. $7\frac{2}{7}$ **of 189 + 452 = 2000 – ?**

A. 183 B. 164 C. 170
D. 198 E. None of these

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7. **80% of 2555 = 50% of 2518 + ?**

A. 758 B. 857 C. 587
D. 785 E. None of these

8. $\frac{21}{25} \div \frac{9}{20} \times \frac{5}{12} \div \frac{10}{17} = ?$

A. 2.12 B. 5.42 C. 6.66
D. 1.32 E. None of these

9. $(11.1)^2 + (15.2)^2 - (12.3)^2 = ?$

A. 302.56 B. 202.96 C. 208.16
D. 212.96 E. None of these

10. $1\frac{13}{6} - 2\frac{7}{18} + 5\frac{4}{9} = ? + \frac{7}{3}$

A. $2\frac{3}{4}$ B. $5\frac{2}{3}$ C. $3\frac{8}{9}$
D. $1\frac{3}{4}$ E. None of these

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Correct Answers:

1	2	3	4	5	6	7	8	9	10
E	E	B	B	B	E	D	D	B	C

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Explanations:

1. $(2\sqrt{392} - 35) + (\sqrt{8} - 7)^2 = ?^2$

or, $?^2 = 2\ 49 \times 8 - 35 + 8 + 49 - 14\sqrt{8}$

or, $?^2 = 14\sqrt{8} - 35 + 8 + 49 - 14\sqrt{8}$

$? = \sqrt{22}$

Hence, option E is correct.

2. $94736 + 43693 + 25638 = 164067$

Hence, option E is correct.

3.

$3\frac{1}{4} + 7\frac{1}{6} - 5\frac{1}{8} = ? + 2\frac{1}{12}$

$? = (3 + 7 - 5 - 2) + (\frac{1}{4} + \frac{1}{6} - \frac{1}{8} - \frac{1}{12})$

$= 3 + (\frac{6 + 4 - 3 - 2}{24}) = 3 + \frac{5}{24} = 3\frac{5}{24}$

Hence, option B is correct.

3.

$3\frac{1}{4} + 7\frac{1}{6} - 5\frac{1}{8} = ? + 2\frac{1}{12}$

$? = (3 + 7 - 5 - 2) + (\frac{1}{4} + \frac{1}{6} - \frac{1}{8} - \frac{1}{12})$

$= 3 + (\frac{6 + 4 - 3 - 2}{24}) = 3 + \frac{5}{24} = 3\frac{5}{24}$

Hence, option B is correct.

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4. – 224 + (– 314) × (– 9) = – 224 + 2826 = 2602

Hence, option B is correct.

5. $\sqrt{7+\sqrt{64}+\sqrt{289}} = (?)^2 - 21$

$Or, (?)^2 = \sqrt{7+\sqrt{64}+17+21}$

$Or, (?)^2 = \sqrt{7+\sqrt{81}+21}$

$\text{Or}, (?)^2 = \sqrt{7}+9+21$

$\text{Or}, (?)^2 = \sqrt{16}+21$

Or, $?^2$ = 4 + 21

Or, ? = √25 = 5

Hence, option B is correct.

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6. $7\frac{2}{7}$ of 189 + 452 = 2000 – ?

= $\frac{51}{7}$ of 189 + 452 = 2000 – ?

or, ? = 2000 – (1377 + 452)

∴ ? = 2000 – 1829 = 171.

Hence, option E is correct.

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7. 80% of 2555 = 50% of 2518 + ?

⇒ 2044 – 1259 = ?

⇒ ? = 785

Hence, option D is correct.

8. $? = \frac{21}{25} \div \frac{9}{20} \times \frac{5}{12} \div \frac{10}{17}$

$= \frac{21}{25} \times \frac{20}{9} \times \frac{5}{12} \times \frac{17}{10}$

$= \frac{119}{90} = 1.32$

Hence, option D is correct.

9. $(11.1)^2 + (15.2)^2 – (12.3)^2 = ?$

$? = (11.1)^2 + (15.2)^2 – (12.3)^2$

? = 123.21 + 231.04 – 151.29

? = 202.96

Hence, option B is correct.

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10. $1\frac{13}{6} - 2\frac{7}{18} + 5\frac{4}{9} = ? + \frac{7}{3}$

$1\frac{13}{6} - 2\frac{7}{18} + 5\frac{4}{9} - \frac{7}{3} = ?$

$1 - 2 + 5 + (\frac{13}{6} - \frac{7}{18} + \frac{4}{9} - \frac{7}{3}) = ?$

$6 - 2 + (\frac{39 - 7 + 8 - 42}{18}) = ?$

$4 + (\frac{-2}{18}) = ?$

$3 + (1 - \frac{1}{9}) = ?$

$? = 3 + \frac{8}{9}$

$? = 3\frac{8}{9}$

Hence, option C is correct.

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