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The Question Bank

Simplification Questions for IBPS Clerk Pre, LIC Asst., SBI Clerk Pre and IBPS RRB Exams.

Simplification Quiz 16

Directions: What value should come in place of Question mark (?) in the following question?

1. $\sqrt{1369} \div 4^3 \times 176 = [?^3 + (457.68 - 393.68)] \div 4$

A. 49 B. 29 C. 7 D. 14 E. None of these

2. $(287.65 - 111.35 + 158.30) = ?^{1/3} \times 1673$

A. 0.08 B. 0.004 C. 0.8 D. 0.002 E. None of these

3. $221 \div 23.6 \times 94.4 \div 169 \div 17 = ? \div 91$

A. 15 B. 28 C. 30 D. 45 E. None of these

4. $(3.4)^2 - (1.2)^2 = ?^{1/2} - 2.88$

A. 100 B. 225 C. 144 D. 169 E. 121

5. $72.9 \times 6.561 \times \sqrt{10^4} \div 81 = 9^{3+?} \times \sqrt{81}$

A. 1 B. 2 C. 3 D. 4 E. None of these

6. 146% 950 – 46% of 1850 = 8 × ?

A. 536 B. 67 C. 168 D. 76 E. None of these

7. $(0.2)^3 \times 200 \div 2000$ of $(0.2)^2$ is

A. $\frac{1}{100}$ B. $\frac{1}{50}$ C. $\frac{1}{10}$ D. 1 E. None of these

8. $15^3 + 17^2 - 12^3 + 1960$ is equal to

A. 3324 B. 3896 C. 4894 D. 8764 E. None of these

9. $\frac{5}{12} + \frac{11}{32} \div \frac{73}{48} = ?$

A. $\frac{3}{7}$ B. $\frac{3}{4}$ C. $\frac{1}{4}$ D. $\frac{1}{3}$ E. None of these

10. $10^{7.5} \times 10^{4.5} \div 10^2 = 10^?$

A. 10 B. 6 C. 8.5 D. 9.5 E. None of these

Correct Answers:

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

Explanations:

1. $\sqrt{1369} \div 4^3 \times 176 = [?^3 + (457.68 - 393.68)] \div 4$

$\frac{37}{64} \times 176 = \frac{?^3 + 64}{4}$

$37 \times 11 \times 4 \div 4 = ?^3 + 64$
$?^3 = 407 - 64$
$?^3 = 343$
$? = 7$
Hence, option C is correct.

2. $(287.65 - 111.35 + 158.30) = ?^{1/3} \times 1673$
$(445.95 - 111.35) = ?^{1/3} \times 1673$
$(334.60) = ?^{1/3} \times 1673$

$?^{1/3} = \frac{334.60}{1673}$

$?^{1/3} = \frac{2}{10}$

$?^{1/3} = 0.2$
$? = 0.008$
Hence option E is correct.

3. $221 \div 23.6 \times 94.4 \div 169 \div 17 = ? \div 91$
$\frac{221}{23.6} \times \frac{94.4}{169 \times 17} \times 91 = ?$

$\frac{4}{13} \times 91 = ?$

$? = 28$

Hence, option B is correct.

4. $(3.4)^2 - (1.2)^2 = ?^{1/2} - 2.88$

$(3.4 + 1.2)(3.4 - 1.2) = ?^{1/2} - 2.88$

$4.6 \times 2.2 = ?^{1/2} - 2.88$

$?^{1/2} = 10.12 + 2.88$

$?^{1/2} = 13$

$? = 169$

Hence, option D is correct.

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5. $72.9 \times 6.561 \times \sqrt{10^4} \div .81 = 9^{3+?} \times \sqrt{81}$

$729 \times 6561 \div 81 = 9^{3+?} \times 9$

$9^{3+?} = 9^3 \times 81 \div 9$

$9^{3+?} = 9^{3+2-1}$

$3 + ? = 4$

$? = 1$

Hence, option A is correct.

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6. 146% of 950 – 46% of 1850 = 8 × ?

⇒ (100% of 950 + 50% 950 – 4% of 950) – (50% of 1850 – 4% of 1850) = 8 × ?

⇒ (950 + 475 – 38) – (925 – 74) = 8 × ?

⇒ 1387 – 851 = 8 × ?

⇒ 536 = 8 × ?

⇒ ? = 67

Hence, option B is correct.

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7. Expression

$= (0.2)^3 \times 200 \div 2000$ of $(0.2)^2$

Applying the BODMAS, we get

$= (0.2)^3 \times 200 \div (2000 \times 0.2 \times 0.2)$

$$= \frac{0.2 \times 0.2 \times 0.2 \times 200}{2000 \times 0.2 \times 0.2}$$

$$= \frac{2 \times 2 \times 2 \times 200}{2000 \times 2 \times 2 \times 10}$$

$$= \frac{2}{100} = \frac{2}{100} = \frac{1}{50}$$

Hence, option B is correct.

8. $15^3 + 17^2 - 12^3 + 1960$ is equal to

or, $3375 + 289 - 1728 + 1960 = 3896$

Hence, option B is correct answer.

9.

$$? = \frac{5}{12} + \frac{11}{32} \div \frac{73}{48}$$

$$= \frac{5}{12} + \frac{11}{32} \times \frac{48}{73}$$

$$= \frac{5}{12} + \frac{33}{146}$$

$$= \frac{365 + 198}{876} = \frac{563}{876}$$

Hence, option E is correct.

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10. $10^{7.5} \times 10^{4.5} \div 10^2 = 10^?$

Or, $10^{7.5 + 4.5 - 2} = 10^?$

Or, $10^{10} = 10^?$

$\therefore$? = 10

Hence, option A is correct.