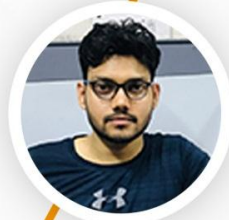Bipin Nambiar
(SBI PO 2018)

Shiraz Khan
(SBI Clerk 2018)

Kuldeep Yadav
(SBI PO 2018)

Rajat Saxena
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The Question Bank

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

Simplification Quiz 26

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

1. $(0.0256) \div 0.064 \times (0.4)^8 = (0.4)^? \times 0.16$

A. 7   B.8   C. 9   D. 6   E. None of these

2. 45% of 89% of 5000 + 98% of 3456 = ?

A. 6745.89   B. 5389.38   C. 3456.78   D. 8233.56   E. None of these

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

A. $12\frac{9}{10}$ B. $13\frac{5}{6}$ C. $14\frac{7}{10}$ D. $15\frac{5}{7}$ E. None of these

4. 998.89 + 99.89 + 889.98 + 88.99 = ?

A. 2077.75   B. 2345.56   C. 1887.67   D. 3214.85   E. None of these

5. $\sqrt{676} \times \sqrt{10201} + 49\%$ of $700 - 54 = ?$

A. 3255   B. 2558   C. 2685   D. 2915   E. None of these

6. $\frac{1}{8} \times \frac{1}{5} \times \frac{1}{9} \times 1440 = ? - \frac{1}{3} \times 123$

A.50   B. 62   C. 45   D. 32   E. None of these

7. 65% of 78% of 450 + 22% of 650 = ?

A. 371.15   B. 217.75   C. 153.35   D. 312.45   E. None of these

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

A. $5\frac{29}{35}$ B. $15\frac{27}{35}$ C. $11\frac{27}{29}$ D. $9\frac{29}{35}$ E. None of these

9. 133.223 + 222.32 + 32.2 + 111.02 = ?

A. 450.56   B. 498.763   C. 509.566   D. 505.634   E. None of these

10. $(0.25)^4 \times \frac{0.125}{0.5} \times (0.5)^8 = (0.5)^? \times 0.25$

A. 16   B. 18   C. 12   D. 14   E. None of these

Correct Answers:

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

Explanations:

1. $(0.0256) \div 0.064 \times (0.4)^8 = (0.4)^? \times 0.16$

$\Rightarrow (0.4)^4 \div (0.4)^3 \times (0.4)^8 = (0.4)^? \times (0.4)^2$

$\Rightarrow (0.4)^{(4-3+8)} = (0.4)^{(?+2)}$

$\Rightarrow 4 - 3 + 8 = ? + 2$

$\Rightarrow ? = 9 - 2$

$\Rightarrow ? = 7$

Hence, option (A) is correct.

2. 45% of 89% of 5000 + 98% of 3456 = ?

$\Rightarrow \dfrac{45}{100} \times \dfrac{89}{100} \times 5000 + \dfrac{98}{100} \times 3456 = ?$

$\Rightarrow 2002.5 + 3386.88 = ?$

$\Rightarrow 5389.38 = ?$

Hence, option (B) is correct.

3.

$6\dfrac{1}{3} - 4\dfrac{1}{2} + 7\dfrac{1}{5} + 5\dfrac{2}{3} = ?$

$\Rightarrow (6 - 4 + 7 + 5) + \left(\dfrac{1}{3} - \dfrac{1}{2} + \dfrac{1}{5} + \dfrac{2}{3}\right) = ?$

$\Rightarrow 14 + \dfrac{10 - 15 + 6 + 20}{30} = ?$

$\Rightarrow 14 + \dfrac{21}{30} = ?$

$\Rightarrow 14 + \dfrac{7}{10} = ?$

$\Rightarrow 14\dfrac{7}{10} = ?$

Hence, option (C) is correct.

4. 998.89 + 99.89 + 889.98 + 88.99 = ?

⇒ 2077.75 = ?

Hence, option (A) is correct.

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5. √676 × √10201 + 49% of 700 − 54 = ?

⇒ 26 × 101 + $\dfrac{49}{100}$ × 700 − 54 = ?

⇒ 2626 + 343 − 54 = ?

⇒ 2915 = ?

Hence, option (D) is correct.

6.

$\dfrac{1}{8} \times \dfrac{1}{5} \times \dfrac{1}{9}$ × 1440 = ? $- \dfrac{1}{3}$ × 123

⇒ 4 = ? − 41

⇒ 45 = ?

Hence, option (C) is correct.

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7. 65% of 78% of 450 + 22% of 650 = ?

⇒ $\dfrac{65}{100} \times \dfrac{78}{100}$ × 450 + $\dfrac{22}{100}$ × 650 = ?

⇒ 228.15 + 143 = ?

⇒ 371.15 = ?

Hence, option (A) is correct.

8.

$7\dfrac{1}{7} - 5\dfrac{1}{5} + 3\dfrac{2}{7} + 4\dfrac{3}{5}$ = ?

⇒ (7 − 5 + 3 + 4) + $\left(\dfrac{1}{7} - \dfrac{1}{5} + \dfrac{2}{7} + \dfrac{3}{5} \right)$ = ?

⇒ 9 + $\dfrac{5 - 7 + 10 + 21}{35}$ = ?

⇒ 9 + $\dfrac{29}{35}$ = ?

⇒ $9\dfrac{29}{35}$ = ?

Hence, option (D) is correct.

9. 133.223 + 222.32 + 32.2 + 111.02 = ?

? = 498.763

Hence, option (B) is correct.

10.

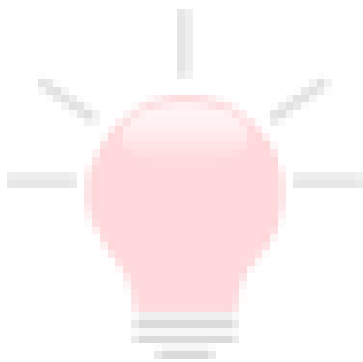$$(0.25)^4 \times \frac{0.125}{0.5} \times (0.5)^8 = (0.5)^? \times 0.25$$

$$\Rightarrow (0.5)^8 \times \frac{(0.5)^3}{0.5} \times (0.5)^8 = (0.5)^? \times (0.5)^2$$

$$\Rightarrow (0.5)^{(8+3-1+8)} = (0.5)^{(x+2)}$$

$\Rightarrow 18 = x + 2$

$\Rightarrow x = 16$

Hence, option (A) is correct.