SmartKeeda
The Question Bank

Presents

TestZone

India's least priced Test Series platform

JOIN

12 Month Plan
2017-18 All Test Series

@ Just

₹399/-
300+ Full Length Tests

- ☑ **Brilliant Test Analysis**
- ☑ **Excellent Content**
- ☑ **Unmatched Explanations**

JOIN NOW

Simplification Questions for Bank Clerk Pre Exams.

Simplification Quiz 10

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

1. $5\frac{2}{3} + 3\frac{3}{35} + 1\frac{4}{15} = ? + 4\frac{1}{15}$

A. $4\frac{24}{35}$ B. $5\frac{24}{35}$ C. $5\frac{17}{24}$ D. $7\frac{13}{24}$ E. None of these

2. $\frac{323 \times \sqrt{289}}{\sqrt{361}} + 2 + \sqrt{1089} = ?^2$

A. 16   B. 24   C. 30   D. 18   E. 8

3. $(1.6 + 3.2)^2 = \frac{?^7}{10} + 256 \times \sqrt{16}$

A. 2   B. 0   C. 5   D. 6   E. 1

4. $\frac{46.5 \% \; of \; 754 + 10.39}{\sqrt{484} \, -27^{1/3}} = ?^{1/3}$

A. 5893   B. 6859   C. 1728   D. 2197   E. None of these

5. $(3469.24 + 1209.53 - 2046.27) = ?^2 + 2551.5$

A. − 15   B. 5   C. − 9   D. 12   E. None of these

6. $\frac{27.27\% \; of \; 8415}{6.25\% \; of \; 5376} = \frac{?}{1008 \div 5}$

A. 1377   B. 1543   C. 1449   D. 1265   E. None of these

7. 11.5% of 288 − ?% of 150 = − 1016.88

A. 500   B. 400   C. 650   D. 700   E. 100

8. $(7657.63 + 2587.97 - 8876.6) \times (5741.65 - 1981.22 - 1975.43) = ?^2 \times \sqrt{289}$

A. $27\sqrt{105}$ B. $33\sqrt{105}$ C. $37\sqrt{105}$ D. $37\sqrt{15}$ E. None of these

9. $845^2 - (529 - 874 + 361) = ?^2 \times 849$

A. 31   B. 19   C. 21   D. 29   E. None of these

10. $(17.5)^2 - 472.5 + (13.5)^2 = ? + 182.25$

A. − 156.25   B. 166.25   C. − 148.75   D. 150.50   E. None of these

Correct Answers:

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

Explanations:

1.

$$5\frac{2}{5} + 3\frac{3}{35} + 1\frac{4}{15} = ? + 4\frac{1}{15}$$

$$5\frac{2}{5} + 3\frac{3}{35} + 1\frac{4}{15} - 4\frac{1}{15} = ?$$

$$? = (5 + 3 + 1 - 4) + \left(\frac{2}{5} + \frac{3}{35} + \frac{4}{15} - \frac{1}{15}\right)$$

$$? = 5 + \frac{42 + 9 + 28 - 7}{105}$$

$$? = 5 + \frac{72}{105}$$

$$? = 5 + \frac{24}{35} = 5\frac{24}{35}$$

Hence, option B is correct.

2. $\dfrac{323 \times \sqrt{289}}{\sqrt{361}} + 2 + \sqrt{1089} = ?^2$

$$\frac{323 \times 17}{19} + 2 + 33 = ?^2$$

or, $289 + 2 + 33 = ?^2$
or, $324 = ?^2$
or, $? = 18$
Hence, option D is correct.

3. $(1.6 + 3.2)^2 = \dfrac{?^7}{10} + 256 \times \sqrt{16}$

$$(1.6)^2 + (3.2)^2 + 2 \times 1.6 \times 3.2 = \frac{?^7}{10} + 2.56 \times 4$$

$$2.56 + 10.24 + 10.24 - 10.24 = \frac{?^7}{10}$$

$$12.80 = \frac{?^7}{10}$$

$128 = ?^7$
$(2)^7 = ?^7$
$? = 2$
Hence, option A is correct.

4. $\dfrac{46.5\ \%\ of\ 754 + 10.39}{\sqrt{484}\ -27^{1/3}} = ?^{1/3}$

$\dfrac{93\%\ of\ 377 + 10.39}{22 - 3} = ?^{1/3}$

$\dfrac{350.61 + 10.39}{19} = ?^{1/3}$

$?^{1/3} = \dfrac{361}{19}$

$?^{1/3} = 19$

? = 6859

Hence, option B is correct.

---

5. (3469.24 + 1209.53 – 2046.27) = $?^2$ + 2551.5
(4678.77 – 2046.27) = $?^2$ + 2551.5
2632.50 – 2551.5 = $?^2$
$?^2$ = 81
? = ± 9
Hence, option C is correct.

6.
$\dfrac{27.27\%\ of\ 8415}{6.25\%\ of\ 5376} = \dfrac{?}{1008 \div 5}$

$\dfrac{8415 \times \dfrac{3}{11}}{5376 \times \dfrac{1}{16}} = \dfrac{?}{1008 \div 5}$

$\dfrac{2295}{336} \times \dfrac{1008}{5} = ?$

? = 1377
Hence, option A is correct.

---

7. 11.5% of 288 – ?% of 150 = – 1016.88
23% of 144 – ?% of 150 = – 1016.88
33.12 + 1016.88 = 1.5 × ?
1050 = 1.5 × ?
$? = \dfrac{1050}{1.5}$
? = 700
Hence, option D is correct.

8. $(7657.63 + 2587.97 - 8876.6) \times (5741.65 - 1981.22 - 1975.43) = ?^2 \times \sqrt{289}$

$(10245.6 - 8876.6) \times (5741.65 - 3956.65) = ?^2 \times 17$

$1369 \times 1785 = ?^2 \times 17$

$?^2 = 1369 \times 105$

$?^2 = 37 \times 37 \times 5 \times 3 \times 7$

$? = 37\sqrt{105}$

Hence, option C is correct.

---

9. $845^2 - (529 - 874 + 361) = ?^2 \times 849$

$845^2 - [(23)^2 - (19)^2 + 2 \times 23 \times 19] = ?^2 \times 849$

$845^2 - (23 - 19)^2 = ?^2 \times 849$

$845^2 - 4^2 = ?^2 \times 849$

$(845 + 4) \, (845 - 4) = ?^2 \times 849$

$849 \times 841 = ?^2 \times 849$

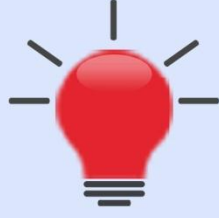$?^2 = 841$

$? = 29$

Hence, option D is correct.

---

10. $(17.5)^2 - 472.5 + (13.5)^2 = ? + 182.25$

$306.25 - 472.5 + 182.25 = ? + 182.25$

$306.25 - 472.5 = ?$

$? = -166.25$

Hence, option E is correct.