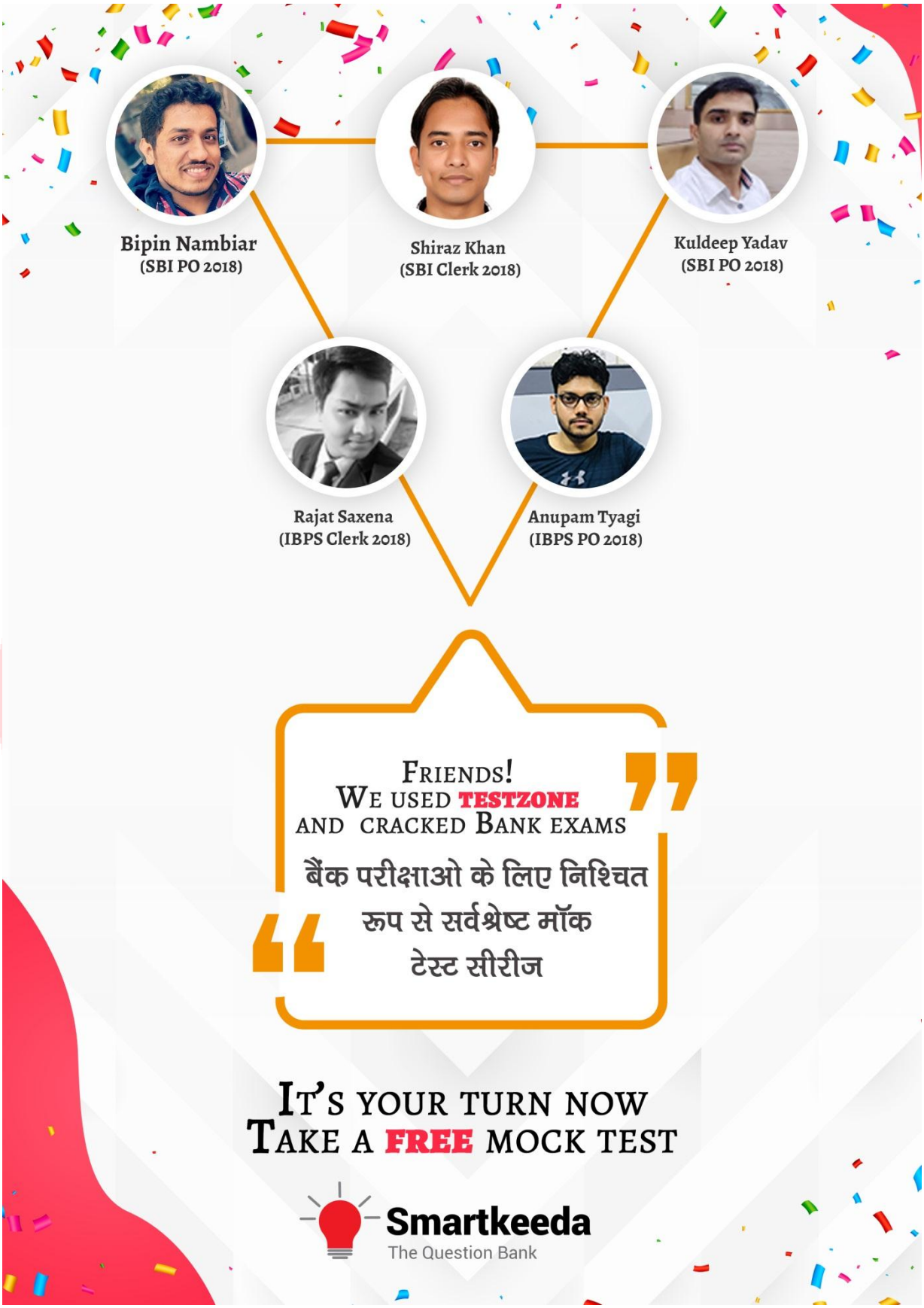
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(SBI PO 2018)
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The Question Bank

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

Simplification Quiz 47

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

1. $[(288)^2 \div 24 \times 36] \div 18 = \sqrt{?}$

A. 6912 B. 3456 C. 216 D. 69122 E. None of these

2. $1454 + 2365 + 9710 + 3020 = ?$

A. 20718 B. 18121 C. 16549 D. 14226 E. None of these

3. 67.5% of $960 + ?\%$ of $640 = 728$

A. 12.5 B. 25 C. 12 D. 11 E. None of these

4. $19 - \left[1 - \frac{1}{2} + 2\frac{2}{3}\right] = ?$

A. $\frac{1}{6}$ B. 6 C. $\frac{1}{2}$ D. $\frac{1}{19}$ E. None of these

5. $(\sqrt{8} \times \sqrt{8})^{1/2} + 9^{1/2} = ?^3 + \sqrt{8} - 340$

A. 7 B. 19 C. 18 D. 9 E. None of these

6. $2\frac{1}{3}\%$ of $1500 + \{320$ of $1450 + \sqrt{1066 - 15\% \ 280} \div (68 - 72)\} = 0$

A. 499 B. 480 C. 489 D. 490 E. None of these

7. $7428 \times \frac{3}{4} \times \frac{2}{9} \times ? = 619$

A. 0.5 B. 1.5 C. 0.2 D. 2.4 E. None of these

8. $(4 + 3\sqrt{2})^2 - (3 + 2\sqrt{2})^2 = ?$

A. $24 + 12\sqrt{2}$ B. $24 + 10\sqrt{2}$ C. $23 + 12\sqrt{2}$ D. $23 + 10\sqrt{2}$ E. None of these

9. $632323 + 454545 - 757575 - 157866 = ?$

A. 187548 B. 174578 C. 171427 D. 172787 E. None of these

10. $3\frac{12}{67} \times 59\frac{32}{71} \times 16\frac{2}{7} + 3\frac{1}{2} = ?$

A. 3084.5 B. 3125.5 C. 3245.5 D. 3081.5 E. None of these

Correct Answers:

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

Explanations:

1. $[(288)^2 \div 24 \times 36] \div 18 = \sqrt{?}$

$\sqrt{?} = [(288)^2 \div 24 \times 36] \div 18$

$\sqrt{?} = [82944 \div 24 \times 36] \div 18$

$\sqrt{?} = 6912$

$? = 6912^2$

Hence, option D is correct.

2. $1454 + 2365 + 9710 + 3020 = ?$

$? = 1454 + 2365 + 9710 + 3020$

$? = 16549$

Hence, option C is correct.

3. 67.5% of 960 + ?% of 640 = 728

$\frac{67.5}{100} \times 960 + \frac{?}{100} \times 640 = 728$

$648 + \frac{?}{100} \times 640 = 728$

$\frac{?}{100} \times 640 = 728 - 648$

$\frac{?}{100} \times 640 = 80$

$? = 80 \times \frac{100}{640}$

$? = 12.5$

Hence, option A is correct.

4.

$19 \div [1 - \frac{1}{2} + 2\frac{2}{3}] = ?$

$? = 19 \div [1 - \frac{1}{2} + 2\frac{2}{3}]$

$? = 19 \div [3 - \frac{1}{2} + \frac{2}{3}]$

$? = 19 \div [3 - \frac{3}{6} + \frac{4}{6}]$

$? = 19 \div [3 + \frac{1}{6}]$

$? = 19 \div [\frac{19}{6}]$

$? = 19 \times [\frac{6}{19}]$

$? = 6$

Hence, option B is correct.

5. $(\sqrt{8} \times \sqrt{8})^{1/2} + 9^{1/2} = ?^3 + \sqrt{8} - 340$

$(8)^{1/2} + 9^{1/2} = ?^3 + \sqrt{8} - 340$

$(4 \times 2)^{1/2} + 9^{1/2} = ?^3 + \sqrt{(4 \times 2)} - 340$

$2\sqrt{2} + 3 = ?^3 + 2\sqrt{2} - 340$

$3 = ?^3 + - 340$

$?^3 = 340 + 3 = 343$

$?^3 = 7$

Hence, option A is correct.

6. $2\frac{1}{3}$% of 1500 + {320 of 1450 + $\sqrt{1066\ -15\%\ 280}$ ÷ (68 – 72)} = 0

$\frac{11}{5} \times \frac{1}{100} \times 1500 + \left\{\frac{32}{100} \times 1450 + \sqrt{1066 - \frac{15}{100}} \times 280 \div (-4)\right\}$

33 + {464 + $\sqrt{1066 - 42}$ ÷ (– 4) }

33 + {464 + $\sqrt{1024}$ ÷ (–4)}

$33 + \{464 + 32 \times \frac{1}{(-4)}\}$

33 + (464 – 8)

33 + 456 = 489

Hence, option C is correct.

7.

$7428 \times \frac{3}{4} \times \frac{2}{9} \times ? = 619$

$7428 \times \frac{1}{2} \times \frac{1}{3} \times ? = 619$

$3714 \times \frac{1}{3} \times ? = 619$

1238 × ? = 619

$? = \frac{619}{1238} = 0.5$

Hence, option A is correct.

8. $(4 + 3\sqrt{2})^2 - (3 + 2\sqrt{2})^2$

? = (16 + 18 + 24√2) – (9 + 8 + 12√2)

? = (34 + 24√2) – (17 + 12√2)

? = 34 + 24√2 – 17 – 12√2

? = 17 + 12√2

Hence, option E is correct.

9. 632323 + 454545 – 757575 – 157866 = ?

? = 1086868 – 915441

? = 171427

Hence, option C is correct.

10.

$\Rightarrow 3\frac{12}{67} \times 59\frac{32}{71} \times 16\frac{2}{7} + 3\frac{1}{2} = ?$

$\Rightarrow \frac{213}{67} \times \frac{4221}{71} \times \frac{114}{7} + \frac{7}{2} = ?$

$\Rightarrow 3078 + 3.5 = ?$

$\Rightarrow ? = 3081.5$

Hence, option D is correct.