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Simplification Questions for SBI Clerk Pre, IBPS Clerk Pre, RRB Scale I Pre & IBPS RRB

Simplification Quiz 23

Direction: What value should come in place of question mark (?).

1. $7854 \times 549 \div 3 - 1425 \times 321 + \sqrt{961} = ?$

A. 979999

B. 979888

C. 979910

D. 989890

E. None of these

2. $20\% \text{ of } \frac{1}{11} \text{ of } \frac{3}{13} \text{ of } \frac{5}{19} \text{ of } \frac{9}{28} \text{ of } 1521520 = ?$

A. 440

B. 784

C. 296

D. 540

E. 144

3. $(10)^2 + (7)^3 + (243)^{1/5} = ?^2 + 5$

A. 25

B. 22

C. 21

D. 23

E. 11

4. $\sqrt{?} - \frac{72}{9 \times 2} \times \sqrt{784} = 895 - \sqrt{1296} \times 24$

A. 27830

B. 20449

C. 27840

D. 24508

E. 24959

5. $(0.0625)^4 \times 0.125 \div (0.5)^9 = (0.5)^? \div 0.25$

A. 13

B. 16

C. 10

D. 12

E. 15

6. $366.633 + 636.36 - 666.333 - 33.366 + 3336.33 = ?$

A. 3639.624

B. 4532.224

C. 3242.332

D. 4426.634

E. None of these

7. $8200 \times 67 - 32518 = ? \times 90 + 12$

A. 5743

B. 6587

C. 5796

D. 6425

E. None of these

8. $12.5 \times 151.2 + 752.64 - 1858.64 = ?^2$

A. - 28

B. 21

C. - 31

D. 16

E. 27

9. $(? \times 21\% \text{ of } 210) \div (17\% \text{ of } 170) = 3087 \div ?$

A. 15

B. $3\sqrt{2}$

C. $15\sqrt{5}$

D. $17\sqrt{7}$

E. None of these

10. $\frac{(729 \times 81)}{(216 \times 16 \times 81)} = ?$

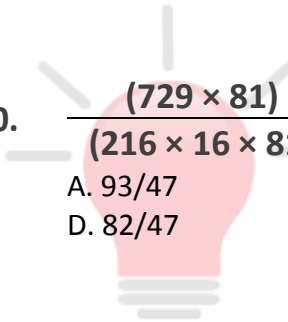
A. $93/47$

B. $73/47$

$95/67$

D. $82/47$

E. $93/65$



Correct answer:

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

Correct answer:

1.

$$7854 \times 549 \div 3 - 1425 \times 321 + \sqrt{961} = ?$$

$$\text{or, } 7854 \times 183 - 1425 \times 321 + 31 = ?$$

$$\text{or, } 1437282 - 457425 + 31 = ?$$

$$\text{or, } ? = 979888$$

Hence, option B is correct.

2.

According to the question:

$$\frac{1}{5} \times \frac{1}{11} \times \frac{3}{13} \times \frac{5}{19} \times \frac{9}{28} \times 1521520 = 540$$

Hence, option D is correct.

3.

$$10^2 + 7^3 + (243)^{1/5} = ?^2 + 5$$

$$?^2 = 100 + 343 + 3 - 5$$

$$?^2 = 441$$

$$? = \sqrt{441}$$

$$? = 21$$

Hence, option C is correct.



4.

$$\Rightarrow \sqrt{?} - \frac{72}{9 \times 2} \times \sqrt{784} = 895 - \sqrt{1296} \times 24$$

$$\Rightarrow \sqrt{?} - \frac{72}{18} \times 28 = 895 - 36 \times 24$$

$$\Rightarrow ? = (895 - 864 + 112)^2$$

$$\Rightarrow ? = (143)^2$$

$$\Rightarrow ? = 20449$$

Hence, option B is correct.

5.

$$(0.0625)^4 \times 0.125 \div (0.5)^9 = (0.5)^? \div 0.25$$

$$\Rightarrow ((0.5)^4)^4 \times (0.5)^3 \div (0.5)^9 = (0.5)^? \div (0.5)^2$$

$$\Rightarrow (0.5)^{16} \times (0.5)^3 \div (0.5)^9 = (0.5)^? \div (0.5)^2$$

$$\Rightarrow 16 + 3 - 9 = ? - 2$$

$$\Rightarrow 10 + 2 = ?$$

$$\Rightarrow 12 = ?$$

Hence, option D is correct.

6.

$$366.633 + 636.36 - 666.333 - 33.366 + 3336.33 = ?$$

$$\Rightarrow 3639.624 = ?$$

Hence, option A is correct.

7.

$$\Rightarrow 8200 \times 67 - 32518 = ? \times 90 + 12$$

$$\Rightarrow 549400 - 32518 = ? \times 90 + 12$$

$$\Rightarrow 516882 = ? \times 90 + 12$$

$$\Rightarrow ? \times 90 = 516882 - 12$$

$$\Rightarrow ? = \frac{516870}{90}$$

$$\Rightarrow ? = 5743$$

Hence, option A is correct.

8.

$$12.5 \times 151.2 + 752.64 - 1858.64 = ?^2$$

$$?^2 = 125 \times 1512/100 + 752.64 - 1858.64$$

$$?^2 = 378 \times 5 + 752.64 - 1858.64$$

$$?^2 = 1890 - 1106$$

$$?^2 = 784$$

$$? = \pm 28$$

Hence, option A is correct.

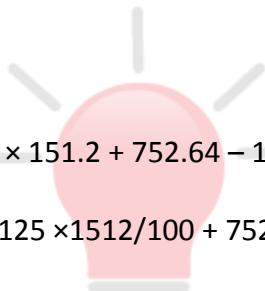
9.

$$(? \times 21\% \text{ of } 210) \div (17\% \text{ of } 170) = 3087 \div ?$$

$$(? \times 441 \div 289) = 3087 \div ?$$

$$?^2 = 3087 \times 289 \div 441$$

$$?^2 = 289 \times 7$$



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$$? = 17 \sqrt{7}$$

Hence, option D is correct.

10.

$$\frac{(729 \times 81)}{(216 \times 16 \times 81)} = ?$$

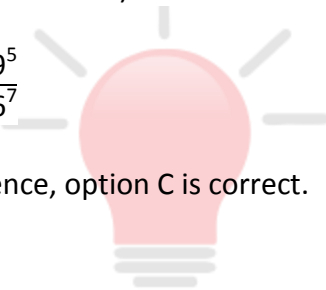
$$\frac{(9^3 \times 9^2)}{(216 \times 4 \times 4 \times 9 \times 9)} = ?$$

$$\frac{(9^3 \times 9^2)}{(6^3 \times 36 \times 36)} = ?$$

$$\frac{(9^3 \times 9^2)}{(6^3 \times 6^2 \times 6^2)} = ?$$

$$= \frac{9^5}{6^7}$$

Hence, option C is correct.



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