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Simplification Questions for SBI Clerk Pre

SBI Clerk Pre Maths Quiz 1

Directions: What value should come in place of question mark?

(1). $\frac{?}{529} = \frac{324}{?}$

- A. 404 B. 408 C. 414
D. 424 E. None of these

(2). $\frac{2}{3} \div \frac{1}{3}$ of $\frac{1}{2} \div \frac{1}{6} = ?$

- A. 15 B. 24 C. 34
D. 25 E. None of these

(3). $125 \times 625 \div 25 = (5)^{13-?}$

- A. 6 B. 8 C. 5
D. 14 E. None of these

(4). $216 \times 36 \div 1296 = (6)^{?-3}$

- A. 1 B. 3 C. 4
D. 5 E. None of these

(5). $7^3 + 8^2 = 5^2 + x\%$ of 400

- A. 97 B. 97.5 C. 98
D. 95.5 E. None of these

(6). $145673.234 + 25432.236 - ? = 171055.47$

- A. 12345.34 B. 2345.45 C. 1555
D. 500 E. None of these

(7). $63 \times 131 + 2^2 \times ? = 30\%$ of 520

- A. 13 B. 13.5 C. 12
D. 12.5 E. None of these

(8). $\sqrt{11^2 + 3^4 \times 7 - 13^2 + 10} = ?$

- A. 25 B. 23 C. 19
D. 21 E. None of these

(9). $\frac{6}{14} + \frac{73}{18} \div \frac{7}{9} = ?$

- A. $5\frac{9}{14}$ B. $4\frac{9}{14}$ C. $10\frac{9}{7}$

D. $10\frac{5}{7}$

E. None of these

(10). $(0.3)^2 \times 5000 \div 2000$ of $(0.5)^3 = ?$

A. 18

B. 21

C. 1.8

D. 2.1

E. None of these



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Correct answers:

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

Explanations:

1.

$$\frac{?}{529} = \frac{324}{?}$$

$$? = \sqrt{529 \times 324}$$

$$? = 23 \times 18$$

$$? = 414$$

Hence, option C is correct.

2.

$$\frac{2}{3} \div \frac{1}{3} \text{ of } \frac{1}{2} \div \frac{1}{6} = ?$$

$$\Rightarrow \frac{2}{3} \div \frac{1}{3} \text{ of } \frac{1}{2} \div \frac{1}{6} = ?$$

$$\Rightarrow \frac{2}{3} \div \frac{1}{6} \div \frac{1}{6} = ?$$

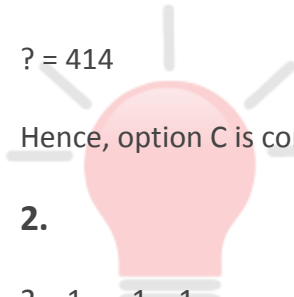
$$\Rightarrow \frac{2}{3} \times 6 \times 6 = ?$$

$$\Rightarrow ? = 24$$

Hence, option B is correct.

3.

$$125 \times 625 \div 25 = (5)^{(13-?)}$$



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$$\Rightarrow (5)^3 \times 5^2 = (5)^{(13-?)}$$

$$\Rightarrow ? = 13 - 5$$

$$\Rightarrow ? = 8$$

Hence, option B is correct.

4.

$$216 \times 36 \div 1296 = (6)^{?-3}$$

$$\Rightarrow 216 \times 36 \div 1296 = (6)^{?-3}$$

$$\Rightarrow 6^3 \times 6^2 \div 6^4 = (6)^{?-3}$$

Taking the power, we get

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

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

$$\Rightarrow ? = 4$$

Hence, option C is correct.

5.

$$7^3 + 8^2 = 5^2 + ?\% \text{ of } 400$$

$$\Rightarrow 343 + 64 = 25 + 4x$$

$$\Rightarrow 382 = 4x$$

$$\Rightarrow x = 382/4$$

$$\Rightarrow x = 95.5$$

Hence, option D is correct.

6.

$$145673.234 + 25432.236 - ? = 171055.47$$



$$145673.234 + 25432.236 - 171055.47 = 50$$

Hence, option E is correct.

7.

$$6\frac{3}{4} \times 13\frac{1}{3} + 2^2 \times ? = 30\% \text{ of } 520$$

$$\frac{27}{4} \times \frac{40}{3} + 4 \times ? = 156$$

$$4 \times ? = 156 - 90$$

$$4 \times ? = 66$$

$$? = 16.5$$

Hence, option E is correct.

8.

$$\sqrt{(11^2 + 3^4 \times 7 - 13^2 + 10)} = ?$$

$$? = \sqrt{121 + 567 - 169 + 10}$$

$$? = \sqrt{529} = 23$$

Hence, option B is correct.

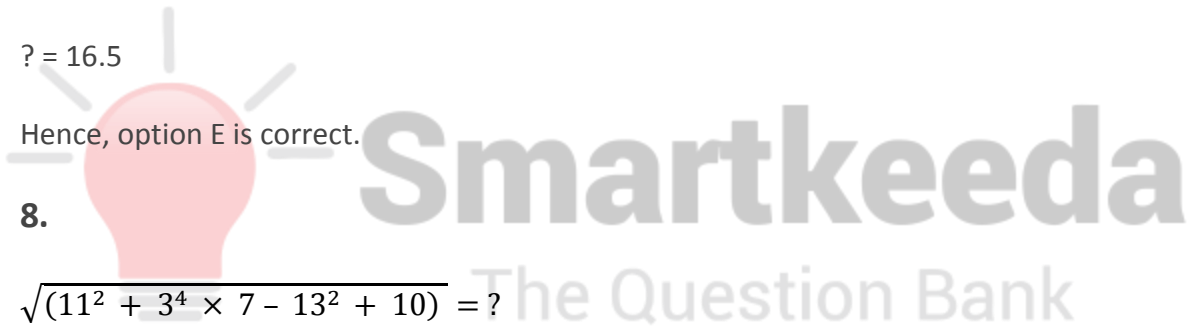
9.

$$\frac{6}{14} + \frac{73}{18} \div \frac{7}{9} = ?$$

$$\frac{6}{14} + \frac{73}{18} \times \frac{9}{7} = ?$$

$$\frac{6}{14} + \frac{73}{14} = \frac{79}{14} = 5\frac{9}{14}$$

Hence, option A is correct.



10.

$$(0.3)^2 \times 5000 \div 2000 \text{ of } (0.5)^3 = ?$$

$$? = (0.3)^2 \times 5000 \div [2000 \times 0.5 \times 0.5 \times 0.5]$$

$$? = 0.09 \times 5000 \div 250$$

$$? = 1.8$$

Hence, option C is correct.



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