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## Simplification Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

### Simplification Quiz 36

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

1.  $1\frac{8}{13} \times 60\frac{2}{3} \div 2 + 17 = ?$

- A. 213                      B. 41                      C. 66                      D. 115                      E. None of these

2.  $\frac{1}{?} \times 425 \div 5 - 2 = 4 \times 156.25$

- A. 19                      B. 34                      C. 17                      D. 8.5                      E. None of these

3.  $? \% \text{ of } 480 + 28.5\% \text{ of } 200 = 3^2 \times 25$

- A. 40                      B. 55                      C. 35                      D. 45                      E. None of these

4.  $\frac{1}{5} \% \text{ of } 105 + \frac{1}{2} \% \text{ of } x^2 = 488$

- A. 24                      B. 48                      C. 2400                      D. 240                      E. None of these

5.  $12\frac{1}{3} \text{ of } 321 - ? = 18.5 \times 14$

- A. 3750                      B. 3700                      C. 3755.5                      D. 3792.5                      E. None of these

6.  $3\frac{12}{67} \times 59\frac{32}{71} \times 16\frac{2}{7} + 3\frac{1}{2} = ?$

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

7.  $\sqrt{37249} \times \sqrt{2809} - (87)^2 = (?)^2 + (48)^2 - 5$

- A. 25                      B. 21                      C. 24                      D. 23                      E. 19

8.  $(6963 \div 33) + (745 \div 35) + (9580 \div 45) = ?$

- A. 458.5                      B. 437.8                      C. 478.6                      D. 445.2                      E. 410.2

9.  $[(9\sqrt{5} + 4\sqrt{5}) \times (11\sqrt{5} + 19\sqrt{5})] - (43)^2 = ?$

- A. 176                      B. 143                      C. 205                      D. 101                      E. None of these

10.  $14\frac{2}{3} \times \sqrt{729} - 23\% \text{ of } 1750 = ?^{1/2} - 23.5$

- A. 144                      B. 289                      C. 361                      D. 441                      E. 625

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
C	C	C	D	B	D	E	D	D	B

**Explanations:**

**1.**

$$1\frac{8}{13} \times 60\frac{2}{3} \div 2 + 17 = ?$$

$$\frac{21}{13} \times \frac{182}{3} \times \frac{1}{2} + 17 = ?$$

$$7 \times 7 + 17 = ?$$

$$? = 66$$

Hence, option C is correct.

**2.**

$$\frac{1}{?} \times 425 \div 5^{-2} = 4 \times 156.25$$

$$625 = \frac{1}{?} \times 425 \times 25$$

$$? = \frac{425}{25} = 17$$

Hence, option C is correct.

**3.**  $?% \text{ of } 480 + 28.5\% \text{ of } 200 = 3^2 \times 25$

$$?% \text{ of } 480 = 225 - 57 = 168$$

$$? = 168 \times \frac{100}{480}$$

$$? = 35$$

Hence, option C is correct.

4.

$$\frac{1}{5}\% \text{ of } 10^5 + \frac{1}{2}\% \text{ of } x^2 = 488$$

$$\frac{1}{500} \times 10^5 + \frac{1}{200} \times x^2 = 488$$

$$\frac{1}{200} \times x^2 = 488 - 200 = 288$$

$$x^2 = 288 \times 200 = 57600 = 240^2$$

$$? = 240$$

Hence, option D is correct.

5.

$$12\frac{1}{3} \text{ of } 321 - ? = 18.5 \times 14$$

$$\frac{37}{3} \text{ of } 321 - ? = 37 \times 7$$

$$? = 37 \times 107 - 37 \times 7 = 37 \times 100$$

$$? = 3700$$

Hence, option B is correct.

6.

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

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

$$\Rightarrow 3078 + 3.5 = ?$$

$$\Rightarrow ? = 3081.5$$

Hence, option D is correct.

7.  $\sqrt{37249} \times \sqrt{2809} - (87)^2 = (?)^2 + (48)^2 - 5$

$$\Rightarrow 193 \times 53 - 7569 = (?)^2 + 2304 - 5$$

$$\Rightarrow 10229 - 7569 = (?)^2 + 2299$$

$$\Rightarrow 2660 = (?)^2 + 2299$$

$$\Rightarrow (?)^2 = 2660 - 2299$$

$$\Rightarrow (?)^2 = 361$$

$$\Rightarrow ? = 19$$

Hence, option E is correct.

8.  $\Rightarrow (6963 \div 33) + (745 \div 35) + (9580 \div 45) = ?$

$$\Rightarrow 211 + 21.3 + 212.9 = ?$$

$$\Rightarrow ? = 445.2$$

Hence, option D is correct.

9.  $\Rightarrow [(9\sqrt{5} + 4\sqrt{5}) \times (11\sqrt{5} + 19\sqrt{5})] - (43)^2 = ?$

$$\Rightarrow [13\sqrt{5} \times 30\sqrt{5}] - 1849 = ?$$

$$\Rightarrow 13 \times 30 \times 5 - 1849 = ?$$

$$\Rightarrow ? = 1950 - 1849$$

$$\Rightarrow ? = 101$$

Hence, option D is correct.

10.

$$14\frac{2}{3} \times \sqrt{729} - 23\% \text{ of } 1750 = ?^{1/2} - 23.5$$

$$\frac{44}{3} \times 27 - 1750 \times \frac{23}{100} = ?^{1/2} - 23.5$$

$$44 \times 9 - 402.5 + 23.5 = ?^{1/2}$$

$$?^{1/2} = 396 - 379$$

$$?^{1/2} = 17$$

$$? = 289$$

Hence, option B is correct.



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