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

## Simplification Quiz 5

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

1.  $\frac{7}{5}$  of 58 +  $\frac{3}{8}$  of 139.2 = ?

- A. 133.4                      B. 137.2                      C. 127.8                      D. 131.6                      E. None of these

2. 12% of 555 + 15% of 666 = ?

- A. 166.5                      B. 167.5                      C. 168.5                      D. 169.5                      E. None of these

3. 84368 + 65466 – 72009 – 13964 = ?

- A. 61481                      B. 62921                      C. 63861                      D. 64241                      E. None of these

4.  $337.8 \times 331.2 \div 335 = 33 \times 33?$

- A. 2.8                      B. 3                      C. 3.2                      D. 4                      E. 6

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

- A. 404                      B. 408                      C. 410                      D. 414                      E. 416

6. 8965 + 3974 + 8652 + 185 = ?

- A. 21766                      B. 21776                      C. 20776                      D. 19776                      E. None of these

7.  $\frac{2}{3}$  of 117 –  $\frac{3}{5}$  of 65 = ?

- A. 40                      B. 58                      C. 52                      D. 39                      E. None of these

8.  $\frac{5}{12} + \frac{11}{32} \div \frac{73}{48} = ?$

- A.  $\frac{3}{7}$                       B.  $\frac{3}{4}$                       C.  $\frac{1}{4}$                       D.  $\frac{1}{3}$                       E. None of these

9. 38% of 7500 + ?% of 375 = 50% of 6000

- A. 40                      B. 50                      C. 60                      D. 70                      E. None of these

10. 29(119 ÷ 17) – 149 + 2006 = ?

A. 2070

B. 2160

C. 2060

D. 1006

E. None of these

**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> |
| A        | A        | C        | B        | D        | B        | D        | E        | A        | C         |

**Explanations:**

**1.**

$$? = \frac{7}{5} \text{ of } 58 + \frac{3}{8} \text{ of } 139.2 = 81.2 + 52.2 = 133.4$$

Hence, option A is correct.

**2. Method I :**

$$? = 12\% \text{ of } 555 + 15\% \text{ of } 666$$

$$= \frac{12}{100} \times 555 + \frac{15}{100} \times 666$$

$$= 12 \times 5.55 + 15 \times 6.66$$

$$= 66.6 + 99.9 = 166.5$$

**Method II :**

$$? = 12\% \text{ of } 555 + 15\% \text{ of } 666$$

$$= (10 + 2)\% \text{ of } 555 + (10 + 5)\% \text{ of } 666$$

$$= 10\% \text{ of } 555 + 2\% \text{ of } 555 + 10\% \text{ of } 666 + 5\% \text{ of } 666$$

$$= 55.5 + 11.1 + 66.6 + 33.3 = 166.5$$

Hence, option A is correct.

**3.**  $? = 84368 + 65466 - 72009 - 13964$

$$= 149834 - 85973 = 63861$$

Hence, option C is correct.

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4.  $337.8 \times 331.2 \div 335 = 33 \times 33?$

$$337.8 + 1.2 - 5 = 331 + ?$$

$$334 = 331 + ?$$

$$4 = 1 + ?$$

$$? = 4 - 1 = 3$$

Hence, option B is correct.

5.

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

$$?^2 = 529 \times 324$$

$$? = \sqrt{529 \times 324} = 23 \times 18 = 414$$

**Note :** We don't even need to multiply 23 into 18 to find the correct answer. We can observe the correct answer just by multiplying the unit digit of these two numbers, which will be 4. Therefore, option 'D' can be immediately chosen.

Hence, option D is correct.

6.  $? = 8965 + 3974 + 8652 + 185$

$$= 21776$$

Hence, option B is correct.

7.

$$? = \frac{2}{3} \text{ of } 117 - \frac{3}{5} \text{ of } 65$$

$$= 2 \times 39 - 3 \times 13$$

$$= 78 - 39 = 39$$

Hence, option D is correct.

**8.**

$$? = \frac{5}{12} + \frac{11}{32} \div \frac{73}{48}$$

$$= \frac{5}{12} + \frac{11}{32} \times \frac{48}{73}$$

$$= \frac{5}{12} + \frac{33}{146}$$

$$= \frac{365 + 198}{876} = \frac{563}{876}$$

Hence, option E is correct.

**9.** 38% of 7500 + ? % of 375 = 50% of 6000

$$\frac{38}{100} \times 7500 + \frac{?}{100} \times 375 = \frac{50}{100} \times 6000$$

$$2850 + ? \times 3.75 = 3000$$

$$? = \frac{3000 - 2850}{3.75} = 40$$

Hence, option A is correct.

**10.** ? = 29(119 ÷ 17) - 149 + 2006

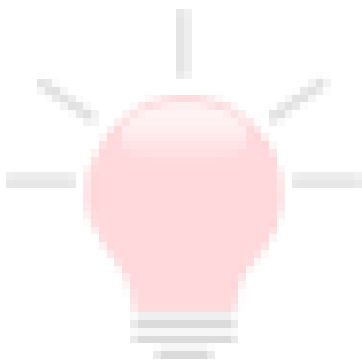
$$= 29 \times 7 - 149 + 2006$$

$$= 203 - 149 + 2006$$

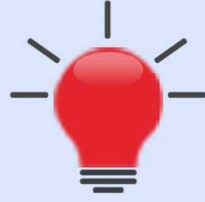
$$= 2060$$

Hence, option C is correct.

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