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# Simplification Questions for LIC Asst. Pre.

## Quiz 6

Directions: What will come in place of question mark(?) in the following questions?

1.  $60\% \text{ of } 1450 + ?\% \text{ of } 1850 = 55\% \text{ of } 2520 + 298$

- A. 36                      B. 34                      C. 28                      D. 38                      E. None of these

2.  $108\sqrt{?} + 524 = \frac{3}{4} \text{ of } 588 + 731$

- A. 25                      B. 36                      C. 16                      D. 64                      E. None of these

3.  $5\frac{3}{7} \text{ of } 224 + 430 = 4985 - ? - 1100$

- A. 1949                      B. 1845                      C. 2239                      D. 2555                      E. None of these

4.  $198 \times 16 - 11 \times 68 + (29)^2 = ?$

- A. 5560                      B. 3261                      C. 2840                      D. 3020                      E. None of these

5.  $58\% \text{ of } 1850 - 36\% \text{ of } 1245 = ?$

- A. 484.4                      B. 550                      C. 644.8                      D. 524.8                      E. 624.8

6.  $334.6 + 1062.15 + ? = 2554.15 - 295.23$

- A. 762.17                      B. 567.27                      C. 862.17                      D. 472.07                      E. 652.27

7.  $2.5 \times 3.1 + 5.2 \times 1.3 + 76.02 = ?$

- A. 90.53                      B. 84.60                      C. 88.65                      D. 102.61                      E. 108.63

8.  $\sqrt{1225} \times 36 - 767 = ?$

- A. 348                      B. 469                      C. 572                      D. 567                      E. 493

9.  $9\frac{1}{2} \text{ of } 5\frac{1}{2} \div 2\frac{1}{5} = ?$

- A. 10.25                      B. 5.25                      C. 8.75                      D. 6.75                      E. 9.5

10.  $\frac{72 \times \frac{5}{24} + 60.75}{23 \times \frac{6}{4} - 9.25} = ?$

A. 3

B. 6

C. 8

D. 10

E. 12

**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>
E	B	C	B	E	C	A	E	C	A

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## Explanations:

1.  $60\% \text{ of } 1450 + ? \% \text{ of } 1850 = 55\% \text{ of } 2520 + 298$

or,  $60\% \text{ of } 1450 + \frac{?}{100} \text{ of } 1850 = 55\% \text{ of } 2520 + 298$

or,  $\frac{60}{100} \times 1450 + \frac{?}{100} \times 1850 = \frac{55}{100} \times 2520 + 298$

or,  $870 + 18.5 \times ? = 1386 + 298$

or,  $18.5 \times ? = 1386 + 298 - 870$

or,  $18.5 \times ? = 516 + 298$

$\therefore ? = \frac{814}{18.5} = 44$

Hence, option E is correct.

2.

$108\sqrt{?} + 524 = \frac{3}{4} \text{ of } 588 + 731$

or,  $108\sqrt{?} + 524 = 441 + 731$

or,  $108\sqrt{?} = 1172 - 524$

or,  $108\sqrt{?} = 648$

or,  $\sqrt{?} = 6$

$\therefore ? = 6^2 = 36$

Hence, option B is correct.

3.

$5\frac{3}{7} \text{ of } 224 + 430 = 4985 - ? - 1100$

$\Rightarrow \frac{38}{7} \times 224 + 430 = 4985 - ? - 1100$

$\Rightarrow 1216 + 430 = 3885 - ?$

$\therefore ? = 3885 - 1646 = 2239$

Hence, option C is correct.

4.  $198 \times 16 - 11 \times 68 + (29)^2 = ?$   
 $\Rightarrow ? = 198 \times 16 - 11 \times 68 + (29)^2$   
 $\Rightarrow ? = 3168 - 748 + 841$   
 $\Rightarrow ? = 4009 - 748 = 3261$

Hence, option B is correct.

5.  $58\% \text{ of } 1850 - 36\% \text{ of } 1245 = ?$   
 $? = 58\% \text{ of } 1850 - 36\% \text{ of } 1245$   
 $? = 1073 - 448.2 = 624.8$

Hence, option E is correct.

6.  $334.6 + 1062.15 + ? = 2554.15 - 295.23$   
or,  $1396.75 + ? = 2258.92$   
 $? = 2258.92 - 1396.75$   
 $? = 862.17$

Hence, option C is correct.

7.  $? = 2.5 \times 3.1 + 5.2 \times 1.3 + 76.02$   
 $? = 7.75 + 6.76 + 76.02$   
 $? = 90.53$

Hence, option A is correct.

8.  $\sqrt{1225} \times 36 - 767 = ?$   
 $? = 35 \times 36 - 767$   
 $? = 1260 - 767$   
 $? = 493$

Hence, option E is correct.

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9.

$$? = 3\frac{1}{2} \text{ of } 5\frac{1}{2} \div 2\frac{1}{5}$$

$$? = \frac{7}{2} \times \frac{11}{2} \times \frac{5}{11} = 8.75$$

Hence, option C is correct.

10.

$$\frac{72 \times \frac{5}{24} + 60.75}{23 \times \frac{6}{4} - 9.25} = ?$$

$$? = \frac{75.75}{25.25} = 3$$

Hence, option A is correct.



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