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# Approximation Questions for LIC Asst. Pre.

## Quiz 3

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

1.  $\sqrt{326} \times 13.98 \div 20.94 = ?$

- A. 17                      B. 22                      C. 12                      D. 35                      E. 7

2.  $130.02 + 241 \div 6 - 163.11 = \sqrt[3]{?}$

- A. 125                      B. 343                      C. 49                      D. 7                      E. 216

3.  $33.33\% \text{ of } 60.15 + 60.04\% \text{ of } 160.12 = ?$

- A. 98                      B. 132                      C. 108                      D. 128                      E. 116

4.  $16.04^2 - 3.01 \times 95.91 \div 4.02 = ?$

- A. 195                      B. 203                      C. 153                      D. 184                      E. 133

5.  $\left[ \left( \frac{1}{5} \times 175 \right) \div \left( \frac{1}{7} \times 37 \right) \right] + ? = 112$

- A. 106                      B. 95                      C. 86                      D. 116                      E. 6

6.  $132.99 \times 62.01 - (16.98)^2 = ?$

- A. 8457                      B. 10257                      C. 6582                      D. 7957                      E. 9280

7.  $\frac{132.995}{7.01} + \frac{368.001}{22.999} = ?$

- A. 27                      B. 45                      C. 16                      D. 35                      E. 9

8.  $\frac{4}{5} \text{ of } \frac{3}{7} \text{ of } \frac{7}{9} \text{ of } 1575 = ?$

- A. 520                      B. 550                      C. 350                      D. 420                      E. 460

9.  $84\% \text{ of } 500 - 16\% \text{ of } 650 = ? - 36\% \text{ of } 349.569$

- A. 440                      B. 490                      C. 390                      D. 410                      E. 520

10.  $24.0009 \div \sqrt{35.999} \times (373 + ?) = 2040.05$

- A. 197                      B. 177                      C. 97                      D. 157                      E. 137

**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	B	E	D	A	D	D	D	A	E

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## Explanations:

1.  $? = \sqrt{326 \times 13.98 \div 20.94}$

$$? \approx \sqrt{324 \times 14 \div 21}$$

$$? = 18 \times 14 \div 21$$

$$? = 252 \div 21$$

$$? = 12$$

Hence, option C is correct.

2.  $\sqrt[3]{?} = 130.02 + 241 \div 6 - 163$

$$\sqrt[3]{?} \approx 130 + 40 - 163$$

$$\sqrt[3]{?} = 170 - 163$$

$$\sqrt[3]{?} = 7$$

$$? \approx 7 \times 7 \times 7 = 343$$

Hence, option E is correct.

3.  $? = 33.33\% \text{ of } 60.15 + 60.04\% \text{ of } 160.12$

$$? \approx 33.33\% \text{ of } 60 + 60\% \text{ of } 160$$

$$? = \frac{1}{3} \times 60 + \frac{3}{5} \times 160$$

$$? = 20 + 96$$

$$? = 116$$

Hence, option E is correct.

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4.  $? = (16.04)^2 - 3.01 \times 95.91 \div 4.02$

$$? \approx (16)^2 - 3 \times 96 \div 4$$

$$? = 256 - 3 \times 24$$

$$? = 256 - 72$$

$$? = 184$$

Hence, option D is correct.

5.

$$\left( \left[ \frac{1}{6} \times 175 \right] \div \left[ \frac{1}{7} \times 37 \right] \right) + ? = 112$$

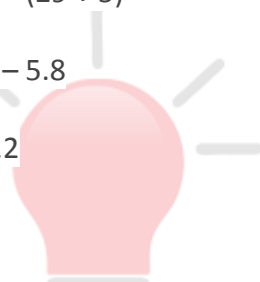
$$? \approx 112 - (29 \div 5)$$

$$? \approx 112 - 5.8$$

$$? \approx 106.2$$

$$? \approx 106$$

Hence, option A is correct.



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6.  $132.99 \times 62.01 - (16.98)^2 = ?$

$$? \approx 133 \times 62 - (17)^2$$

$$? = 8246 - 289 = 7957$$

Hence, option D is correct.

7.

$$? = \frac{132.995}{7.01} + \frac{368.001}{22.999}$$

$$? \approx \frac{133}{7} + \frac{368}{23}$$

$$? = 19 + 16 = 35$$

Hence, option D is correct.

8.

$$? = \frac{4}{5} \text{ of } \frac{3}{7} \text{ of } \frac{7}{9} \text{ of } 1575$$

$$? = \frac{4}{5} \times \frac{3}{7} \times \frac{7}{9} \times 1575$$

$$? = 12 \times 35 = 420$$

Hence, option D is correct.

9. 84% of 500 – 16% of 650 = ? – 36% of 349.569

$$84 \times 5 - 16 \times 6.50 \approx ? - 36 \times 3.5$$

$$420 - 104 \approx ? - 126$$

$$? \approx 316 + 126 = 442 \approx 440$$

Hence, option A is correct.

10.  $24.0009 \div \sqrt{35.999} \times (373 + ?) = 2040.05$

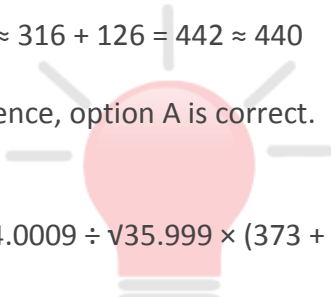
$$24 \div \sqrt{36} \times (373 + ?) \approx 2040$$

$$24 \div 6 \times (373 + ?) \approx 2040$$

$$373 + ? \approx 510$$

$$\therefore ? \approx 510 - 373 = 137$$

Hence, option E is correct.



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