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Approximation Questions for LIC Asst. Pre.

Quiz 3

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

1. **v326 × 13.98 ÷ 20.94 = ?**

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

2. **130.02 + 241 ÷ 6 – 163.11 = $\sqrt[3]{?}$**

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

3. **33.33% of 60.15 + 60.04% of 160.12 = ?**

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

4. **16.04^2 – 3.01 × 95.91 ÷ 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 × 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% of 500 – 16% of 650 = ? – 36% of 349.569**

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

10. **24.0009 ÷ v35.999 × (373 + ?) = 2040.05**

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

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Correct Answers:

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

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Explanations:

1. ? = √326 × 13.98 ÷ 20.94

? ≈ √324 × 14 ÷ 21

? = 18 × 14 ÷ 21

? = 252 ÷ 21

? = 12

Hence, option C is correct.

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

$\sqrt[3]{?}$ ≈ 130 + 40 – 163

$\sqrt[3]{?}$ = 170 – 163

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

? ≈ 7 × 7 × 7 = 343

Hence, option E is correct.

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3. ? = 33.33% of 60.15 + 60.04% of 160.12

? ≈ 33.33% of 60 + 60% of 160

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

? = 20 + 96

? = 116

Hence, option E is correct.

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.

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