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7. $25\% \text{ of } 240 = ? + 5\% \text{ of } 5!$

- A. 108 B. 36 C. 64 D. 54 E. None of these

8. $11^2 + 13^2 + 8^2 = ?^3 + \sqrt{121}$

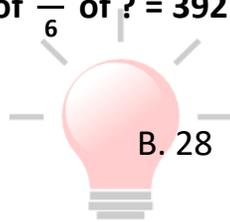
- A. 7 B. 6 C. 9 D. 5 E. 8

9. $4.25 - 8.24 + 11.45 = ? - 4.45$

- A. 2.92 B. 3.01 C. 3.11 D. 3.21 E. 3.31

10. $\frac{32}{5} \text{ of } \frac{3}{14} \text{ of } \frac{35}{6} \text{ of } ? = 392$

- A. 22 B. 28 C. 14 D. 7 E. 49



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Correct Answers:

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



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Explanation:

1. $38\% \text{ of } 500 - 22 = ? \times 4$

$$0.38 \times 500 - 22 = ? \times 4$$

$$? = \frac{168}{4} = 42$$

Hence, option D is correct.

2. $(14^2 \times 4) \div 16 + 61 = ?$

$$49 + 61 = ?$$

$$? = 110$$

Hence, option B is correct.

3. $(12^2 \times 15) \div 3^3 = ? + (9 \times 7)$

$$(144 \times 15) \div 27 = ? + (9 \times 7)$$

$$? = 80 - 63$$

$$? = 17$$

Hence, option A is correct.

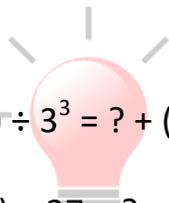
4. $\{(720 \div 5) + 112\} \div 16 = ?$

$$(144 + 112) \div 16 = ?$$

$$256 \div 16 = ?$$

$$? = 16$$

Hence, option C is correct.



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5. $(49 \times 7) - 13\% \text{ of } 2500 = ? - 63$

$$343 - 13 \times 25 = ? - 63$$

$$? = 343 - 325 + 63$$

$$? = 81$$

Hence, option B is correct.

6.

$$(9^2 \times 56) \div 2^3 = ? \times \frac{3}{10}$$

$$(81 \times 56) \div 8 = ? \times \frac{3}{10}$$

$$81 \times 7 = ? \times \frac{3}{10}$$

$$? = 27 \times 7 \times 10 = 1890$$

Hence, option D is correct.

7. $25\% \text{ of } 240 = ? + 5\% \text{ of } 5!$

$$60 = ? + 5\% \text{ of } (5 \times 4 \times 3 \times 2 \times 1)$$

$$60 = ? + 5\% \text{ of } 120$$

$$60 = ? + 6$$

$$? = 54$$

Hence, option D is correct.

Note: The given equation is following the factorial function.

The factorial function (symbol: !) says to multiply all whole numbers from our chosen number down to 1.

Ex: $4! = 4 \times 3 \times 2 \times 1 = 24$

8. $11^2 + 13^2 + 8^2 = ?^3 + \sqrt{121}$

$$121 + 169 + 64 - 11 = ?^3$$

$$343 = ?^3$$

$$? = 7$$

Hence, option A is correct.

9. $? = 4.25 - 8.24 + 11.45 - 4.45$

$$? = 3.01$$

Hence, option B is correct.

10.

$$\frac{32}{5} \text{ of } \frac{3}{14} \text{ of } \frac{35}{6} \text{ of } ? = 392$$

$$8 \times ? = 392$$

$$? = 392 \div 8$$

$$? = 49$$

Hence, option E is correct.



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