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Correct Answers:

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

Explanations:

1. $820.01 - 21 \times 32.99 + ? = 240$

$\approx 820 - 21 \times 33 + ? = 240$

$\approx 820 - 693 + ? = 240$

$\approx ? = 240 - 127 = 113$

Hence, option C is correct.

2. $299 \div 12 \times 13.95 + ? = 24.022$

$\approx 300 \div 12 \times 14 + ? = 242$

$\approx 25 \times 14 + ? = 576$

$\approx 350 + ? = 576$

$\approx ? = 576 - 350 = 226.$

Hence, option B is correct.

3. $\left(\frac{24}{9}\right)^2 \times \frac{399}{39} \div \frac{41}{899} = ?$

$? \approx \left(\frac{24}{8}\right)^2 \times \frac{400}{40} \div \frac{40}{900}$

$? \approx \left(\frac{8}{3}\right)^2 \times \frac{400}{40} \times \frac{900}{40}$

$? \approx \frac{64}{9} \times \frac{400}{40} \times \frac{900}{40} \approx 1600$

Hence, option A is correct.

4. $67.99\% \text{ of } 1401 - 13.99\% \text{ of } 1299 = ?$

$\Rightarrow ? \approx 68\% \text{ of } 1400 - 14\% \text{ of } 1300$

$\Rightarrow ? \approx 68\% \text{ of } 1400 - 14\% \text{ of } 1300$

$\Rightarrow ? \approx (50\% \text{ of } 1400 + 10\% \text{ of } 1400 + 8\% \text{ of } 1400) - (10\% \text{ of } 1300 + 4\% \text{ of } 1300)$

$\Rightarrow ? \approx (700 + 140 + 112) - (130 + 52)$

$\Rightarrow ? \approx 952 - 182 \approx 770.$

Hence, option C is correct.

5. $5998 \div 9.98 + 670.99 - 139.99$

$$\approx \frac{6000}{10} + 671 - 140$$

$$\approx 600 + 531 \approx 1131 \approx 1130.$$

Hence, option D is correct.

6. $-(4.99)^3 + (29.98)^2 - (3.01)^4 = ?$

$$\Rightarrow ? \approx -(5)^3 + (30)^2 - (3)^4$$

$$\Rightarrow ? \approx -125 + 900 - 81$$

$$\Rightarrow ? \approx 900 - 81 - 125$$

$$\Rightarrow ? \approx 694 \approx 690.$$

Hence, option E is correct.

7. $95^{3.7} \div 95^{0.9989} = 95^?$

$$\text{or, } 95^? = 95^{3.7 - 0.9989}$$

$$\text{or, } 95^? \approx 95^{2.7}$$

$$\text{or, } ? = 2.70$$

Hence, option E is correct.

8. $\sqrt{10000} + \frac{3.001}{4.987}$ of $1891.992 = ?$

$$\text{or, } ? \approx 100 + \frac{3}{5} \text{ of } 1900 = 100 + 1140 \approx 1230$$

Hence, option B is correct.

9. $? = 0.0004 \div 0.0001 \times 36.000009$

$$= 4 \times 36.000009 \approx 145$$

Hence, option C is correct.

10. $? = 137\% \text{ of } 12345$

$$= (100 + 37)\% \text{ of } 12345$$

$$\approx 12345 + 4570 \approx 17000$$

Hence, option A is correct.



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