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(1).

$9 \times 9 \times 9 + 6 \times 6 \times 6 = (1.5)^? \times 35 \times 8$

A. 6   B. 9   C. 3   D. 1.5   E. None of these

(2).

$0.005 \times 10^5 \times 33 - ? = (60)^2$

A. 13500   B. 1230   C. − 1950   D. 12900   E. None of these

(3).

$\dfrac{3}{5}$ of $\dfrac{4}{7}$ of $\dfrac{2}{3}$ of $875 \div 5^{-1} = ?$

A. 1500   B. 200   C. 1000   D. 40   E. None of these

(4).

$11 \times ? \times 19 = 19^3 - 37 \times 95$

A. 24   B. 8   C. 22   D. 16   E. None of these

(5).

$15 \times 15 \times 15 + 45^2 = 3^2 \times ?$

A. 1800   B. 200   C. 600   D. 900   E. None of these

(6).

$5\dfrac{1}{3}$ of $5 + 373\dfrac{1}{3}$ of $1 + ? = 5^2 \times 4^2$

A. 200   B. − 200   C. 0   D. − 400   E. None of these

(7).

$333 \div 18.5 + 10^4 \div 2^4 + 10^2 = ?$

A. 848   B. 743   C. 924   D. 683   E. None of these

(8).

$5\dfrac{1}{5}$ % of 3000 + $6\dfrac{1}{3}$ % of 3000 = ?

A. 35600   B. 3800   C. 346   D. 848   E. None of these

(9).

56% of 2400 − 82% of 6000 = ? − 32% of 1800

A. −2400   B. − 3000   C. 2400   D. 3000   E. None of these

(10).

$16^{4.5} \times 4^{6.3} \times 8^{2.1} \div 2^{9.2} \times 32^{0.64} = 8^{2.3 + ?}$

A. 9   B. 7   C. 8   D. 3   E. 10

Correct answers:

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

Explanations:

1.

$9 \times 9 \times 9 + 6 \times 6 \times 6 = (1.5)^? \times 35 \times 8$

$729 + 216 = (1.5)^? \times 35 \times 8$

$945 = (1.5)^? \times 35 \times 8$

$\left(\dfrac{27}{8}\right) = \left(\dfrac{3}{2}\right)^?$

$\left(\dfrac{3}{2}\right)^3 = \left(\dfrac{3}{2}\right)^?$

.

Hence, option C is correct.

2.

$0.005 \times 10^5 \times 33 - ? = (60)^2$

$500 \times 33 - ? = 3600$

$? = 16500 - 3600 = 12900$

Hence, option D is correct.

3.

$\dfrac{3}{5}$ of $\dfrac{4}{7}$ of $\dfrac{2}{3}$ of $875 \div 5^{-1} = ?$

? = 25 × 4 × 2 × 5

? = 1000

Hence, option C is correct.

4.

$11 \times ? \times 19 = 19^3 - 37 \times 95$

$11 \times ? \times 19 = 19 (19^2 - 37 \times 5)$

$11 \times ? = 361 - 185 = 176$

$? = \dfrac{176}{11} = 16$

Hence, option D is correct.

5.

$15 \times 15 \times 15 + 45^2 = 3^2 \times ?$

$9 \times 25 (15 + 9) = 9 \times ?$

$? = 25 \times 24 = 600$

Hence, option C is correct.

6.

$5\dfrac{1}{3}$ of $5 + 373\dfrac{1}{3}$ of $1 + ? = 5^2 \times 4^2$

$\dfrac{16}{3}$ of $5 + \dfrac{1120}{3}$ of $1 - 400 = ?$

$(\dfrac{1200}{3}) - 400 = 0 = ?$

Hence, option C is correct.

7.

$333 \div 18.5 + 10^4 \div 2^4 + 10^2 = ?$

$18 + 5^4 + 100 = ?$

$18 + 625 + 100 = ?$

$? = 743$

Hence, option B is correct.

8.

$5\dfrac{1}{5}\%$ of $3000 + 6\dfrac{1}{3}\%$ of $3000 = ?$

$\dfrac{26}{500} \times 3000 + \dfrac{19}{300} \times 3000 = ?$

$? = 26 \times 6 + 19 \times 10$

$? = 156 + 190 = 346$

Hence, option C is correct.

9.

56% of 2400 − 82% of 6000 = ? − 32% of 1800

⇒ 1344 − 4920 + 576 = ?

⇒ − 3000 = ?

Hence, option B is correct.

10.

⇒ $16^{4.5} \times 4^{6.3} \times 8^{2.1} \div 2^{9.2} \times 32^{0.64} = 8^{2.3+ ?}$

⇒ $2^{4 \times 4.5} \times 2^{2 \times 6.3} \times 2^{3 \times 2.1} \div 2^{9.2} \times 2^{5 \times 0.64} = 2^{[3 \times 2.3 + 3 ?]}$

⇒ $2^{18} \times 2^{12.6} \times 2^{6.3} \div 2^{9.2} \times 2^{3.2} = 2^{(6.9 + 3 ?)}$
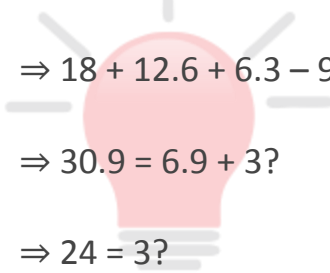
⇒ $2^{(18 + 12.6 + 6.3 − 9.2 + 3.2)} = 2^{(6.9 + 3 ?)}$

⇒ $18 + 12.6 + 6.3 − 9.2 + 3.2 = 6.9 + 3?$

⇒ $30.9 = 6.9 + 3?$

⇒ $24 = 3?$

⇒ $? = 8$

Hence, option C is correct.