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SIMPLIFICATION QUIZ 33

(1).

$\frac{1}{6}$ of 355 of $\frac{1}{5}$ of 2160 + √3969 – 448.98 = ?

A. 25424.02 B. 18436.02 C. 26834.02
D. 25174.02 E. None of these

(2).

$? = \frac{1224}{44} \times \frac{220}{23} \div \frac{340}{414}$

A. 316 B. 324 C. 336
D. 354 E. 386

(3). If X = 10, Y = 7, then

$\frac{(X - Y)^4 - 18}{7} \times \frac{9XY}{10Y^2 - 6XY} = ?$

A. 44 B. 113 C. 66
D. 81 E. 69

(4).

$3990 \div 57 + \sqrt{361} + \sqrt{324} = ?^2 \times 535 \div 729 \times 5$

A. 6.2 B. 4.5 C. 5.6
D. 6.4 E. None of these

(5).

$[(2211 \div 67)^2 - 21 \times \sqrt{256}] \div (549 - 213) = ? \div 1344$

A. 3052 B. 3012 C. 3042
D. 3062 E. 3032

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(6).

$784 \div \sqrt{196} + 25.6 \div 2 \times 1.5 \div \sqrt{8100} \times 3 = ?$

A. 66.64 B. 76.54 C. 56.64
D. 72.64 E. 76.46

(7).

$?^2$ % of 11.11% of $256 \times 1872 \div 2704 = 81$

A. 9.75 B. 10.50 C. 11.25
D. 12.75 E. None of these

(8).

$3\frac{4}{7} \div [(62\% \text{ of } 620 \times 7) \div 2401] = ?^2$

A. 25/61 B. (35/62) $\times \sqrt{10}$ C. (32/75) $\times \sqrt{10}$
D. 52/83 E. None of these

(9).

$(6561 \times 117) \div 108 \times \sqrt{36} = 3^{?+4} \div 216^{1/3} \times 39$

A. 10 B. 6 C. 4
D. 8 E. 2

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(10).

$137 \div (512^{1/3} \div \sqrt{1225})[2 + 3(17 \div 68)] = ?547310$

A. 65 B. 45 C. 74
D. 84 E. None of these

Correct answers:

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

Explanations:

1.

$\frac{1}{6}$ of 355 of $\frac{1}{5}$ of 2160 + √3969 – 448.98 = ?

$\Rightarrow 71 \times 360 + 63 - 448.98 = ?$

$\Rightarrow 25560 + 63 - 448.98 = ?$

$\Rightarrow ? = 25174.02$

Hence, option D is correct.

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2.

$? = \frac{1224}{44} \times \frac{220}{23} \div \frac{340}{414}$

$\Rightarrow ? = \frac{\frac{1224}{44} \times \frac{220}{23}}{\frac{340}{414}}$

$\Rightarrow ? = \frac{1224}{44} \times \frac{220}{23} \times \frac{414}{340}$

$\Rightarrow ? = \frac{36}{2} \times 18$

$\therefore ? = 324$

Hence, option B is correct.

3.

$$\Rightarrow \frac{(X-Y)^4-18}{7} \times \frac{9XY}{10Y^2-6XY} = ?$$

$$\Rightarrow \frac{81-18}{7} \times \frac{9 \times 10}{10 \times 7 - 6 \times 10}$$

$$\Rightarrow \frac{63}{7} \times \frac{9 \times 10}{10 \times 7 - 6 \times 10}$$

$$\Rightarrow 9 \times \frac{90}{10}$$

$$\Rightarrow 81$$

Hence, option D is correct.

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4.

$3990 \div 57 + \sqrt{361} + \sqrt{324} = ?^2 \times 535 \div 729 \times 5$

$70 + 19 + 18 = ?^2 \times 535 \div 729 \times 5$

$107 = ?^2 \times 535 \div 729 \times 5$

$?^2 = 729 \div 25$

$? = 27 \div 5$

$? = 5.4$

Hence, option E is correct.

5.

$[(2211 \div 67)^2 - 21 \times \sqrt{256}] \div (549 - 213) = ? \div 1344$

$[(33)^2 - 21 \times 16] \div 336 = ? \div 1344$

$(1089 - 336) \div 336 = ? \div 1344$

$753 \times 1344 \div 336 = ?$

$? = 3012$

Hence, option B is correct.

6.

$784 \div \sqrt{196} + 25.6 \div 2 \times 1.5 \div \sqrt{8100} \times 3 = ?$

$784 \div 14 + 25.6 \div 2 \times 1.5 \div 90 \times 3 = ?$

$56 + 0.64 = ?$

$? = 56.64$

Hence, option C is correct.

7.

$?^2$ % of 11.11% of $256 \times 1872 \div 2704 = 81$

$?^2 \times 1 \div 900 \times 16 \times 1872 \div 52 = 81$

$?^2 = 81 \times 900 \times 52 \div 16 \div 1872$

$?^2 = 2025/16$

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? = 45/ 4 = 11.25

Hence, option C is correct.

8.

$3\frac{4}{7} \div [(62\% \text{ of } 620 \times 7) \div 2401] = ?^2$

$?^2 = \frac{25}{7} \div (62 \times 62 \div 3430)$

$?^2 = \frac{25}{7} \times 3430 \div 62 \div 62$

$?^2 = 25 \times 490 \div 62 \div 62$

$? = 5 \times 7 \div 62 \times \sqrt{10}$

$? = \frac{35}{62} \times \sqrt{10}$

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Hence, option B is correct.

9.

$(6561 \times 117) \div 108 \times 36 = 3^{?+4} \div 216^{1/3} \times 39$

$(6561 \times 117) \div 108 \times 6 = 3^{? + 4} \div 6 \times 39$

$729 \times 117 \div 12 \times 6 \times 6 \div 39 = 3^{? + 4}$

$729 \times 3 \times 3 = 3^{? + 4}$

$3^{6 + 2} = 3^{? + 4}$

$8 = ? + 4$

? = 4

Hence, option C is correct.

10.

$13\frac{7}{5} \div (512^{1/3} \div \sqrt{1225})[\frac{2}{4} + \frac{3}{7}(\frac{17}{3} \div \frac{68}{10})] = ?$

72/5 ÷ (8 ÷ 35) [2/4 + 3/7 (17/3 × 10/68)] = ?

72/5 × 35 ÷ 8 [2/4 + 3/7 × 5/6] = ?

63 (2/4 + 5/14) = ?

63 (10 + 14)/28 = ?

63 × 24/28 = ?

? = 63 × 6/7

? = 9 × 6 = 54

Hence, option E is correct.

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