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Approximation Questions for IBPS Clerk Pre, SBI Clerk Pre and IBPS RRB Exams.

Approximation Quiz 39

Direction: What approximate value should come in place of question mark?

1. $\sqrt{5040} - \sqrt{4625} = ? - \sqrt[3]{2198} + \sqrt[3]{1330}$

A. 5 B. 25 C. 16 D. 12 E. 2

2. (63425.001 – 43267.003 – 12417.99 – 7649.96) × √6401 = ?

A. 7200 B. 5660 C. 6800 D. 7960 E. 8100

3. $\frac{2}{7}$ of 1547 × 5.993 = 25% of ?

A. 7300 B. 11800 C. 10600 D. 8500 E. 9600

4. 5810.12 ÷ 13.956 ÷ ? = 46

A. 9 B. 6 C. 15 D. 20 E. 4

5. 30.01% of 560.32 + 35% of 579.89 = ?% of 1708.08

A. 28 B. 22 C. 31 D. 36 E. 45

6. $(2.2)^2 + (5.9)^2 + (9)^2 = ?$

A. 136 B. 113 C. 121 D. 97 E. 101

7. $\left(\frac{6}{1.6} \times \frac{22}{0.4}\right) \div \left(\frac{56}{9} \times \frac{54}{10}\right) = ?$

A. 2 B. 15 C. 22 D. 12 E. 5

8. 543.28 ÷ 55 = ?

A. 4 B. 7 C. 10 D. 12 E. 14

9. 15% of 74.78 + 25% of 19.68 = ?

A. 24 B. 32 C. 8 D. 16 E. 2

10. √325 × √255 + 15% of 524 = ?

A. 412 B. 521 C. 258 D. 367 E. 188

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Correct Answers:

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

Explanations:

1. ? = $\sqrt{5040} - \sqrt{4625} + \sqrt[3]{2198} - \sqrt[3]{1330}$

? ≈ $\sqrt{5041} - \sqrt{4625} + \sqrt[3]{2197} - \sqrt[3]{1330}$

? = 71 – 68 + 13 – 11

? = 84 – 79 = 5

Hence, option A is correct.

2. (63425.001 – 43267.003 – 12417.99 – 7649.96) × √6401 = ?

? ≈ (63425 – 43267 – 12418 – 7650) × √6400

? = (63425 – 63335) × 80

? = 90 × 80

? = 7200

Hence, option A is correct.

3.

$\frac{2}{7}$ of 1547 × 5.993 = 25% of ?

$\frac{1}{4} \times ? \approx \frac{2}{7} \times 1547 \times 6$

$? \approx 4 \times \frac{2}{7} \times 1547 \times 6$

$? = \frac{8}{7} \times 1547 \times 6$

? ≈ 8 × 221 × 6 = 221 × 48

? = 10608 ≈ 10600

Hence, option C is correct.

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4. $5810.12 \div 13.956 \div ? = 46$

$\frac{5810}{14} \div ? \approx 46$

$? \approx \frac{415}{46} \approx 9$

Hence, option A is correct.

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5. $\frac{?}{100} \times 1708.08 = 30.01\% \text{ of } 560.32 + 35\% \text{ of } 579.89$

$\frac{?}{100} \times 1708 \approx \frac{30 \times 560}{100} + \frac{35}{100} \times 580$

$? \times 17.08 = 168 + 203 = 371$

$\therefore ? = \frac{371}{17} = 21.8 \approx 22$

Hence, option B is correct.

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6. $(2.2)^2 + (5.9)^2 + (9)^2 = ?$

$? = 4.84 + 34.81 + 81$

$? \approx 5 + 35 + 81 = 121$

Hence, option C is correct.

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7. $\left(\frac{6}{1.6} \times \frac{22}{0.4}\right) \div \left(\frac{56}{9} \times \frac{54}{10}\right)$

$? \approx \left(\frac{6}{1.5} \times \frac{22}{0.5}\right) \div \left(\frac{56}{9} \times \frac{54}{10}\right)$

$= (4 \times 44) \div 33.6 \approx \frac{176}{33} = 5.33 \approx 5$

Hence, option E is correct.

8. $543.28 \div 55 = ?$

$? \approx \frac{540}{55} \approx 10$

Hence, option C is correct.

9. 15% of 74.78 + 25% of 19.68 = ?

$\Rightarrow ? \approx 75\%$ of 15 + 20% of 25

$\Rightarrow ? = (50\%$ of 15 + 25% of 15) + 5

$\Rightarrow ? = 7.5 + 3.75 + 5 = 16.25 \approx 16$

Hence, option D is correct.

10. $\sqrt{325} \times \sqrt{255} + 15\%$ of 524 = ?

$\Rightarrow ? \approx \sqrt{324} \times \sqrt{256} + 15\%$ of 524

$\Rightarrow ? = 18 \times 16 + 78.6$

$\Rightarrow ? \approx 288 + 78.6 = 366.6 \approx 367$

Hence, option D is correct.

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