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

Approximation Quiz 31

Directions: What approximate value should come in the place of question mark (?) in the following questions?

1. $15 \times 18 + 110\%$ of $850 + 870.26 \div 15 + 12 = ?$

A. 1270 B. 1275 C. 1280 D. 1285 E. 1289

2. $? = 1528\sqrt{16.09} + 25\%$ of $512.04 - 75.12$ of $\frac{4}{5}$

A. 6180 B. 6557 C. 5892 D. 6050 E. 6815

3. 269.95% of $1560 - 120.03 \times 27.89 + (13)^2 - (14)^2 = ?$

A. 1826 B. 1830 C. 825 D. 845 E. 655

4. $(15)^2 - 180.01 + \sqrt{170} - 25\%$ of $249.89 = ?$

A. – 5 B. 5 C. – 10 D. 10 E. 20

5. $350 \div 14.94 \times 15.86 + ? = 24.71^2$

A. 241 B. 273 C. 257 D. 235 E. 238

6. 29.99% of $749.6 + 250.016 = ?\%$ of 391

A. 99 B. 139 C. 144 D. 119 E. 134

7. $(112.34 \times 15.19 \times 8101^{1/2}) \div 100 = (?)^2$

A. 39 B. 45 C. 49 D. 53 E. 29

8. 36% of $8550 \times \frac{5}{6} \div ? = 24.902$

A. 123 B. 83 C. 119 D. 92 E. 103

9. $?^2 + 467.97 \div 18.01 = 29.84 \times 35.007$

A. 32 B. 26 C. 46 D. 16 E. 36

10. $(\sqrt{624.75} - \sqrt{168.80}) \times (\sqrt{255.61} + \sqrt{729.057}) = ?$

A. 496 B. 454 C. 502 D. 528 E. 516

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Correct Answers:

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

Explanations:

1. $15 \times 18 + 110\%$ of $850 + 870.26 \div 15 + 12 = ?$

$270 + 850 \times \frac{110}{100} + \frac{870}{15} + 12 = ?$

$270 + 85 \times 11 + 58 + 12 = ?$

$270 + 935 + 70 = 1275$

Hence, option B is correct.

2.

$1528\sqrt{16.09} + 25\%$ of $512.04 - 75.12$ of $\frac{4}{5}$

$? \approx 1528\sqrt{16} + 25\%$ of $512 - 75 \times 0.8$

$? = 6112 + 128 - 60 = 6180$

Hence, option A is correct.

3. 269.95% of $1560 - 120.03 \times 27.89 + (13)^2 - (14)^2 = ?$

$? \approx 270\%$ of $1560 - 120 \times 28 + 169 - 196$

$? = 27 \times 156 - 120 \times 28 + 169 - 196$

$? = 4212 - 3360 + 169 - 196$ $? = 852 - 27 = 825$

Hence, option C is correct.

4. $(15)^2 - 180.01 + \sqrt{170} - 25\%$ of $249.89 = ?$

$225 - 180 + \sqrt{169} - 25\%$ of $250 \approx ?$

$225 - 180 + 13 - 25\%$ of $250 = ?$

$45 + 13 - 62.5 = ?$ $? = -4.5 \approx -5$

Hence, option A is correct.

5. $350 \div 14.94 \times 15.86 + ? = 24.71^2$

$\approx 350 \div 15 \times 16 + ? = 25^2$

$\approx 23 \times 16 + ? = 625$

$\approx 368 + ? = 625$

$\approx ? = 625 - 368 = 257$

$? = 257$

Hence, option C is correct.

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6. 29.99% of 749.6 + 250.016 = ?% of 391

29.99% of 749.6 + 250.016 = 3.91 × ?

30% of 750 + 250 ≈ 4 × ?

225 + 250 = 4 × ?

4 × ? = 475

$? = \frac{475}{4} = 118.75 \approx 119$

Hence, option D is correct.

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7. $(112.34 \times 15.19 \times 8101^{1/2}) \div 100 = (?)^2$

$\approx \frac{(112 \times 15) \times 8100^{1/2}}{100} = \frac{1680 \times 90}{100}$

$?^2 = 168 \times 9 = 1512$

$? = 38.88 \approx 39$

Hence, option A is correct.

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8. $36\% \text{ of } 8550 \times \frac{5}{6} \div ? = 24.902$

$3078 \times \frac{5}{6} \div ? = 24.902$

$3078 \times \frac{5}{6} \times \frac{1}{?} \approx 25$

$\Rightarrow 5 \times ? = 513$

$\Rightarrow ? = 102.6 \approx 103$

Hence, option E is correct.

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9. $?^2 + 467.97 \div 18.01 = 29.84 \times 35.007$

$\approx ?^2 + 468 \div 18 = 30 \times 35$

$?^2 + 468 \times \frac{1}{18} = 30 \times 35$

$?^2 + 26 = 1050$

$?^2 = 1050 - 26 = 1024$

$? = \sqrt{1024} = 32$

Hence, option A is correct.

10. $(\sqrt{624.75} - \sqrt{168.80}) \times (\sqrt{255.61} + \sqrt{729.057}) = ?$

$(\sqrt{625} - \sqrt{169}) \times (\sqrt{256} + \sqrt{729}) = ?$

$(25 - 13) \times (16 + 27) = ?$

$12 \times 43 = ?$

$? = 516$

Hence, option E is correct.

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