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Approximation Questions for Bank Clerk Pre Exams.

Approximation Quiz 18

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

1. $7^{(6-?)} \times 119 \div \sqrt{1225} = \sqrt{289} \times 20.98 \times 7.03 \div 3.02 \div 4.95$

A. 4 B. 10 C. 15 D. 8 E. 12

2. $(128.78 + 307.24 + 111.8) - (246.35 - 786.47) = ?^2$

A. 33 B. 25 C. 28 D. 41 E. 35

3. 54.7% of $1190 \div (\sqrt{676} + \sqrt[3]{1728.11} - \sqrt{361}) = ?^2 \div 57.02$

A. 40 B. 36 C. 44 D. 32 E. 48

4. $7\frac{9}{13}\%$ of $208 + \frac{(16.9 \times 304)}{323} = ?1/2 + \sqrt[3]{125}$

A. 640 B. 730 C. 630 D. 680 E. 700

5. 9.09% of 11.11% of $2430 = ?^3 \div \sqrt{289} + \sqrt{(\sqrt[3]{4096})}$

A. 10 B. 15 C. 3 D. 7 E. 0

6. $?^2 - 149.99 \div 5 = 19.87 \times 32.02$

A. 23 B. 26 C. 32 D. 19 E. 28

7. $?\%$ of $375.01 + (11.97)^2 = 305$

A. 43 B. 39 C. 47 D. 51 E. 62

8. $(4425.73 - 321.01) \div ? = 210 \times 9.05$

A. 5 B. 7 C. 3 D. 2 E. 9

9. $1720.02 + 80.01 \div (15.42 \div 75.02) = ?$

A. 5650 B. 2120 C. 2718 D. 3120 E. 2316

10. $6210 \div 9.01 \div (15.05 \div 105) = ?$

A. 5830 B. 6230 C. 7233 D. 3988 E. 4830

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Correct Answers:

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

Explanations:

1. $7^{(6-?)} \times 119 \div \sqrt{1225} = \sqrt{289} \times 20.98 \times 7.03 \div 3.02 \div 4.95$

$7^{(6-?)} \times 119 \div 35 = 17 \times 21 \times 7 \div 3 \div 5$

$7^{(6-?)} = 17 \times 21 \times 7 \div 3 \div 5 \div 119 \times 35$

$7^{(6-?)} = 7 \times 7$

$7^{(6-?)} = 7^2$

$6 - ? = 2$

$? = 6 - 2 = 4$

Hence, option A is correct.

2. $(128.78 + 307.24 + 111.8) - (246.35 - 786.47) = ?^2$

$(129 + 307 + 112) - (246 - 786) = ?^2$

$548 - (-540) = ?^2$

$?^2 = 548 + 540$

$?^2 = 1088 \approx 1089$

$? = 33$

Hence, option A is correct.

3. 54.7% of $1190 \div (\sqrt{676} + \sqrt[3]{1728.11} - \sqrt{361}) = ?^2 \div 57.02$

$1190 \times \frac{55}{100} \div (26 + 12 - 19) = ?^2 \div 57$

$654.5 \div 19 = ?^2 \div 57$

$655 \div 19 \times 57 = ?^2$

$?^2 = 655 \times 3 = 1965$

$? = 44.32 \approx 44$

Hence, option C is correct.

4.

$7\frac{9}{13}\%$ of $208 + \frac{(16.9 \times 304)}{323} = ?^{1/2} + 125$

$\frac{100}{1300} \times 208 + \frac{17 \times 304}{323} = ?^{1/2} + 5$

$16 + 16 - 5 = ?^{1/2}$

$?^{1/2} = 27$

$? = 729 \approx 730$

Hence, option B is correct.

5. 9.09% of 11.11% of 2430 = $?^3 \div \sqrt{289} + \sqrt{(\sqrt[3]{4096})}$

$2430 \times \frac{1}{9} \times \frac{1}{11} = ?^3 \div 17 + \sqrt{16}$

$\frac{270}{11} = ?^3 \div 17 + 4$

$24.54 - 4 = \frac{?^3}{17}$

$20.54 = \frac{?^3}{17}$

$21 \times 17 = ?^3$
$?^3 = 357$
$? \approx 7$
Hence, option D is correct.

6. $?^2 - 149.99 \div 5 = 19.87 \times 32.02$
or, $?^2 - 150 \times \frac{1}{5} \approx 20 \times 32$
or $?^2 \approx 640 + 30$
or $?^2 \approx 670 \approx 676$
$\therefore ? = 26$
Hence, option (B) is correct.

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7. ?% of 375.01 + $(11.97)^2$ = 305
or, ?% of 375 + 144 ≈ 305
or, $\frac{?}{100} \times 375 \approx 305 - 144$

or, $? \approx 161 \times \frac{100}{375} = 161 \times \frac{4}{15} = \frac{644}{15} = 43$
Hence, option (A) is correct.

8. $(4425.73 - 321.01) \div ? = 210 \times 9.05$
or, $\frac{4426 - 321}{210 \times 9} \approx ?$

or, $? \approx \frac{4105}{1890} \approx 2$
Hence, option (D) is correct

9. ? = 1720.02 + 80.01 ÷ (15.42 ÷ 75.02)

or, ? ≈ $1720 + 80\left(15 \times \frac{1}{75}\right)$

or, ? ≈ 1720 + 80 × 5
= 1720 + 400 = 2120
Hence, option (B) is correct.

10. 6210 ÷ 9.01 ÷ (15.05 ÷ 105) = ?

or, ? ≈ $6210 \times \frac{1}{9} \times 7 = 690 \times 7$

or, ? ≈ 4830
Hence, option (E) is correct.

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