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Approximation Questions for Bank Clerk Pre and PO Pre Exams.

Approximation Quiz 4

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

1. $196.1 \times 196.1 \times 196.1 \times 196.1 \times 4.01 \times 4.001 \times 4.999 \times 4.999 = (196.1)^4 \times 4 \times ?$

A. 100   B. 16   C. 10   D. 64   E. 32

2. $\frac{2}{7} \times \frac{1}{8} + \frac{3}{7} \div \frac{6}{14} = ?$

A. $\frac{2}{56}$ B. $\frac{3}{56}$ C. 1   D. 2.5   E. $\frac{50}{60}$

3. $10.1^{2.01} + 2.9^{3.001} = ?$

A. 130   B. 160   C. 115   D. 117   E. 147

4. $\sqrt{1999.9997} = 4.76 \times ?$

A. 45   B. 49   C. 6   D. 9   E. 3

5. $23\% \text{ of } 4011 + \frac{1}{7} \text{ of } 5555 = ?$

A. 700   B. 1900   C. 9022   D. 1700   E. 1450

6. $(340 \times 9.98) \div 6.4001 + 1245.15 = ?$

A. 1766   B. 1776   C. 1676   D. 1876   E. 1806

7. $(52.02^2 - 34.01^2) \div 17.99 \times \sqrt{?} = 1720$

A. 400   B. 20   C. 25   D. 625   E. None of these

8. $(1800 \div \sqrt{?} \times 29.99) \div 15.02 = 144$

A. 12   B. 25   C. 625   D. 144   E. 169

9. $349.98 \times 19.99 + ?^2 \times 180.16 = 11500$

A. 3   B. 4   C. 5   D. 9   E. 25

10. $52.02\% \text{ of } 749 + 45\% \text{ of } 419.98 - ? = 152$

A. 354   B. 364   C. 370   D. 368   E. None of these

Correct Answers:

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

Explanations:

1. 196.1 × 196.1 × 196.1 × 196.1 × 4.01 × 4.001 × 4.999 × 4.999 = $(196.1)4 × 4 × ?$

or, 4 × ? = 4.01 × 4.001 × 4.999 × 4.999

or, ? ≈ 4 × 5 × 5 = 100

Hence, option A is correct.

2.

$$? = \frac{2}{7} \times \frac{1}{8} + \frac{3}{7} \div \frac{6}{14}$$

$$= \frac{2}{7} \times \frac{1}{8} + \frac{3}{7} \times \frac{14}{6} = \frac{1}{28} + 1$$

$$= 1\frac{1}{28} \approx 1$$

Hence, option C is correct.

3. $? = (10.1)^{2.01} + (2.9)^{3.001} \approx (10)^2 + (3)^3$

$= 100 + 27 \approx 130$

Hence, option A is correct.

4. $4.76 \times ? = \sqrt{1999.9997}$

$4.76 \times ? = 44.72$

or, ? ≈ 9

Hence, option D is correct..

5.

$? = 23\%$ of $4011 + \frac{1}{7}$ of 5555

$= 922.53 + 793.57 \approx 1700.$

Hence, option D is correct.

6. $? \approx (340 \times 10) \div 6.4 + 1245$

$? \approx 531 + 1245 \approx 1776.$

Hence, option B is correct.

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7. $(52.02^2 - 34.01^2) \div 17.99 \times \sqrt{?} \approx 1720$

$\Rightarrow \dfrac{(52 + 34)(52 - 34)}{18} \times \sqrt{?} \approx 1720$

$\Rightarrow \sqrt{?} \approx 1720 \div 86 \approx 20$

$\therefore ? = 20 \times 20 = 400.$

Hence, option A is correct.

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8. $\dfrac{1800}{\sqrt{?}} \times \dfrac{30}{15} = 144$

$\Rightarrow \dfrac{3600}{\sqrt{?}} = 144 \Rightarrow 144 \times \sqrt{?} = 3600$

$= \sqrt{?} = \dfrac{3600}{14} = 25 \Rightarrow ? = 25 \times 25 = 625$

Hence, option C is correct.

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9. $350 \times 20 + ?^2 \times 180 \approx 11500$

$\Rightarrow 7000 + ?^2 \times 180 \approx 11500$

$\Rightarrow ?^2 \times 180 \approx 11500 - 7000 \approx 4500$

$\Rightarrow ?^2 = \dfrac{4500}{180} \approx 25$

$\Rightarrow ? = \sqrt{25} \approx 5.$

Hence, option C is correct.

10.

$\dfrac{750 \times 52}{100} + \dfrac{420 \times 45}{100} - ? \approx 225$

$\Rightarrow 390 + 189 - ? \approx 225$

$\Rightarrow ? \approx 579 - 225 \approx 354.$

Hence, option A is correct.