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Approximation Questions for Bank Clerk Pre and PO Pre Exams.

Approximation Quiz 11

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

1. $33.003 \times 2.97 - 37.03 \times 2.98 + 24.98 \times 15.04 = ?$

- A. 311 B. 234 C. 357 D. 290 E. 399

2. $12.98 \times 11.99 \times 12.03 = ? \times 23.97$

- A. 52 B. 78 C. 98 D. 48 E. 64

3. $(?)^2 + (6.99)^3 = (19.99)^2 + (7.98)^2$

- A. 3824 B. 4055 C. 5138 D. 5446 E. 4970

4. $2208.0811 \div 138.128 = ?^2$

- A. 6 B. 4 C. 5 D. 12 E. 8

5. $720.85 \div 15.15 + 172.108 \div 85.75 = ?$

- A. 119 B. 69 C. 87 D. 50 E. 135

6. $110.95 \times ? \times 15.15 = 58275$

- A. 25 B. 45 C. 35 D. 15 E. 55

7. $67.98^2 - 36.16^2 \div 71.92 = ?$

- A. 4598 B. 4616 C. 4607 D. 4628 E. 4657

8. $(391 \div 17) \times (405 \div 27) + 98 = ?^2$

- A. 19 B. 21 C. 22 D. 20 E. 23

9. $56.91 \times 63.03 = ?^2 - 9.98^2$

- A. 65 B. 60 C. 67 D. 56 E. 66

10. $67.014 \times 15.981 - 76.011 = ?$

- A. 989 B. 958 C. 1001 D. 1010 E. 996

Correct Answers:

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

Explanations:

1. $?\ = 33.003 \times 2.97 - 37.03 \times 2.98 + 24.98 \times 15.04$
 $\approx 33 \times 3 - 37 \times 3 + 25 \times 15$
 $\approx 99 - 111 + 375 \approx 363 \approx 357$
Hence, option C is correct.

2. $12.98 \times 11.99 \times 12.03 = ? \times 23.97$

$$? = \frac{12.98 \times 11.99 \times 12.03}{23.97}$$

$$? \approx \frac{13 \times 12 \times 12}{24} \approx 78$$

Hence, option B is correct.

3. $(?)^2 + (6.99)^3 = (19.99)^2 + (7.98)^2$
 $(?)^2 = (19.99)^2 + (7.98)^2 - (6.99)^3$
 $(?)^2 \approx 400 + 64 - 343$
 $(?)^2 \approx 121$
 $? \approx 11$

Hence. option D is correct.

4. $?^2 = 2208.0811 \div 138.128$

$$? \approx \sqrt{2208 \div 138} \approx \sqrt{16} \approx 4$$

Hence. option B is correct.

5. $? = 720.85 \div 15.15 + 172.108 \div 85.75$

$$\approx 720 \div 15 + 172 \div 86$$

$$\approx 48 + 2 \approx 50$$

Hence, option D is correct.

6. $110.95 \times ? \times 15.15 = 58275$

$$? = \frac{58275}{110.95 + 15.15}$$

$$\approx \frac{58275}{111 \times 15} \approx 35$$

Hence, option C is correct.

7. $? = 67.98^2 - 36.01^2 \div 71.95$

$$\approx 68^2 - 36^2 \div 72$$

$$\approx 4624 - \frac{36 \times 36}{72}$$

$$\approx 4624 - 18 \approx 4606 \approx 4607$$

Hence, option C is correct.

8. $?^2 = (391 \div 17) \times (405 \div 27) + 98$

$$?^2 = 23 \times 15 + 98$$

$$?^2 = 345 + 98 = 443 \approx 212$$

$$\therefore ? = 21$$

Hence, option B is correct.

9. $56.91 \times 63.03 = ?^2 - 9.98^2$

$$?^2 \approx 57 \times 63 + 10^2$$

$$?^2 \approx 3591 + 100 = 3691$$

$$? \approx 60$$

Hence, option B is correct.

10. $? = 67.014 \times 15.981 - 76.011$

$$\approx 67 \times 16 - 76$$

$$\approx 1072 - 76 \approx 996$$

Hence, option E is correct.



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