Approximations questions for IBPS PO pre, IBPS clerk, SBI PO pre and SBI clerk exams

APPROXIMAIONS QUIZ 34

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

(1). $2831.994 \div 23.998 + 11.99^2 \div 5.991 = ?^2$

A. 144 B. 12 C. 195 D. 14 E. 17

(2). $\left(\frac{1}{24.99 \times 32.12} - \frac{1}{32.12}\right) \times (406.103 - 2 \times 3) = ?$

A. – 36 B. – 72 C. 12 D. – 12 E. 36

(3). $10.805 \times 2.5 \times 9.99^2 = ?$

A. 2500 B. 2300 C. 2700 D. 3100 E. 3500

(4). $8.99 \times 8.99 \times 8.99 \div 2.99 = 3^?$

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

(5). $14.982^2 \div 5.001^2 \times 4.990 \times 5^{-1} = ?$

A. 45 B. 75 C. 225 D. 9 E. 25

(6). $\sqrt{15626} \times \sqrt{8650} - (54.06)^2 = ? + (72.039)^2$

A. 3000 B. 3525 C. 3900 D. 4250 E. 3225

(7). $(1522.76 + 2889.57 - 1025.14) \div 4.05 \times 2 = ? + 134.099$

A. 1400 B. 1450 C. 1560 D. 1640 E. 1680

(8). $37\% \text{ of } 924 + \sqrt{290} \div 25 \times 450 = ?^2 - \sqrt{6725}$

A. 18 B. 21 C. 27 D. 35 E. 29

(9). $\frac{499}{55} \times \frac{501}{89} \div \frac{35}{199} = ?\%$ of 1450

A. 40 B. 20 C. 10 D. 45 E. 36

(10. $(\sqrt{7920} \times \sqrt{3482}) - (68.06)^2 = (?)^2 - 48.92$

A. 56 B. 36 C. 26 D. 16 E. 34

Correct answers:

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

Explanations:

1.

$2831.994 \div 23.998 + 11.99^2 \div 5.991 = ?^2$

$\frac{2832}{24} + \frac{12^2}{6} \approx ?^2$

$118 + 24 = 144 = ?^2$

$? = \pm 12$

Hence, option B is correct.

2.

$(\frac{1}{24.99 \times 32.12} - \frac{1}{32.12}) \times (406.103 - 2 \times 3) = ?$

$? \approx \frac{1}{32}(\frac{1}{25} - 1) \times (406 - 6)$

$? = -\frac{24}{25 \times 32} \times 400$

$? = \frac{-24 \times 16}{32} = -12$

Hence, option D is correct.

3.

$10.805 \times 2.5 \times 9.99^2 = ?$

$10.8 \times \frac{5}{2} \times 10^2 \approx ?$

$5.4 \times 5 \times 100 = ?$

$? = 2700$

Hence, option C is correct.

4.

$8.99 \times 8.99 \times 8.99 \div 2.99 = 3^?$

$9 \times 9 \times \frac{9}{3} \approx 3^?$

$9 \times 9 \times 3 = 3^5 = 3^?$

Hence, option E is correct.

5.

$14.982^2 \div 5.001^2 \times 4.990 \times 5^{-1} = ?$

$\frac{15^2}{5^2} \times 5 \times \frac{1}{5} = ?$

$? = 3^2 = 9$

Hence, option D is correct.

6.

$\sqrt{15626} \times \sqrt{8650} - (54.06)^2 = ? + (72.039)^2$

Or, $? \approx \sqrt{15625} \times \sqrt{8649} - (54)^2 - (72)^2$

$\approx 125 \times 93 - 2916 - 5184$

$= 11625 - 8100 = 3525$

Hence, option B is correct.

7.

$(1522.76 + 2889.57 - 1025.14) \div 4.05 \times 2 = ? + 134.099$

$\approx \frac{1523 + 2890 - 1025}{4} \times 2 = ? + 134$

$= \frac{4413 - 1025}{2} = ? + 134$

$= \frac{3388}{2} = ? + 134$

$= 1694 = ? + 134$

$? = 1694 - 134 = 1560$

Hence, option C is correct.

8.

$37\% \text{ of } 924 + \sqrt{290} \div 25 \times 450 = ?^2 - \sqrt{6725}$

$341.88 + \sqrt{290} \div 25 \times 450 = ?^2 - \sqrt{6725}$

$342 + \sqrt{289} \div 25 \times 450 \approx ?^2 - \sqrt{6724}$

$342 + 17 \times 18 = ?^2 - 82$ $342 + 306 + 82 = ?^2$

$?^2 = 730 \approx 729$

$? = 27$

Hence, option C is correct.

9.

$?\%$ of $1450 = \frac{499}{55} \times \frac{501}{89} \div \frac{35}{199}$

$? \times 14.5 \approx \frac{500}{55} \times \frac{502}{90} \times \frac{200}{35}$

$? = 289.75$

$? \approx 290 / 14.5 = 20$

Hence, option B is correct.

10.

$(\sqrt{7920} \times \sqrt{3482}) - (68.06)^2 = (?)^2 - 48.92$

$(\sqrt{7921} \times \sqrt{3481}) - (68)^2 \approx (?)^2 - 49$

$(89 \times 59) - 4624 = (?)^2 - 49$

$5251 - 4624 = (?)^2 - 49$

$(?)^2 = 627 + 49$

$(?)^2 = 676$

? = √676

? = 26

Hence, option C is correct.