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## Approximation Questions for SBI PO Pre, IBPS PO Pre , SBI Clerk Mains and IBPS Clerk Mains Exams.

### Approximation Quiz 36

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

1.  $(251.87 \times 8 \times 6.99) \div 25 = 11.986 + ?$

- A. 448                      B. 586                      C. 568                      D. 548                      E. 652

2.  $39.99\% \text{ of } \left(256.039 - \frac{62}{2}\right) \times 38.23 = ?$

- A. 5420                      B. 4540                      C. 3420                      D. 2860                      E. 3680

3.  $(37.12)^2 + (43.88)^2 = (?^2 - \sqrt{2600}) \times \sqrt{1297}$

- A. 6                          B. 8                          C. 10                          D. 12                          E. 14

4.  $7241 \times 2 \frac{4}{6} + 412 \div ? = 19377$

- A. 3                          B. 6                          C. 9                          D. 12                          E. 18

5.  $(?)^2 + (125)^2 = (250.13)^2 - (95.12)^2 - 5680$

- A. 160                      B. 165                      C. 170                      D. 179                      E. 190

6.  $1.2345 + 12.345 + 123.45 + 1234.5 + 12345 = ?$

- A.. 13525                      B. 14485                      C. 13715                      D. 14245                      E. 13955

7.  $54321 - 5432.1 - 543.21 - 5.4321 - .54321 = ?$

- A. 46580                      B. 44780                      C. 48340                      D. 46880                      E. 48480

8.  $64 \times 16 \div 256 = (4)^{(?-3)}$

- A. 1                          B. 4                          C. 5                          D. 3                          E. 8

9.  $\frac{120.67 \times 198.87 \times 208.89}{12 \times 18 \times 11} = ?$

- A. 2090                      B. 2444                      C. 2540                      D. 2870                      E. 2950

10.  $\sqrt{(?)} + (14)^2 \times 18 \div 6 - 1029 = 83 \times (12 - 7)$

- A. 676112                      B. 264323                      C. 567126                      D. 243236                      E. 732736

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
D	C	D	B	D	C	C	B	A	E

**Explanations:**

1.  $11.986 + ? = (251.87 \times 8 \times 6.99) \div 25$

$$\Rightarrow 12 + ? \approx (252 \times 8 \times 7) \div 25$$

$$\Rightarrow 12 + ? = (10.08 \times 8 \times 7)$$

$$\Rightarrow 12 + ? \approx 560$$

$$? = 560 - 12 = 548$$

Hence, option D is correct.

2.

$$39.99\% \text{ of } \left(256.039 - \frac{62}{2}\right) \times 38.23 = ?$$

$$? = 39.99\% \text{ of } \left(256.039 - \frac{62}{2}\right) \times 38.23$$

$$\approx 40\% \text{ of } \left(256 - \frac{62}{2}\right) \times 38$$

$$\Rightarrow ? = (256 - 31) \times 38$$

$$\Rightarrow ? = 40\% \text{ of } 225 \times 38$$

$$\Rightarrow ? = 90 \times 38 = 3420$$

Hence, option C is correct.

3.  $(37.12)^2 + (43.88)^2 = (?^2 - \sqrt{2600}) \times \sqrt{1297}$

$$\Rightarrow (37)^2 + (44)^2 \approx (?^2 - \sqrt{2601}) \times \sqrt{1296}$$

$$?^2 - 51 = \frac{37^2 + 44^2}{36} = \frac{1369 + 1936}{36} = \frac{3305}{36} = 91.8$$

$$\Rightarrow ?^2 = 91.8 + 51 = 142.80 \approx 144$$

$$\Rightarrow ? = \sqrt{144} = 12$$

Hence, option D is correct.

4. In Approximation,

$$7241 \times \frac{16}{6} + 412 \div ? = 19377$$

$$19309.33 + 412 \div ? = 19377$$

$$412 \div ? = 19377 - 19309 = 68$$

$$? = 412 \div 68$$

$$? = \frac{412}{68} = 6.05 \approx 6$$

Hence, option B is correct.

5.  $(?)^2 + (125)^2 = (250.13)^2 - (95.12)^2 - 5680$

$$(?)^2 + 15625 \approx (250)^2 - (95)^2 - 5680$$

$$(?)^2 + 15625 = 62500 - 9025 - 5680$$

$$(?)^2 + 15625 = 47795$$

$$(?)^2 = 47795 - 15625 = 32170$$

$$? = 179.35$$

$$? \approx 179$$

Hence, option D is correct.

6.  $1.2345 + 12.345 + 123.45 + 1234.5 + 12345 = ?$

$$1 + 12 + 123 + 1234 + 12345 = ?$$

$$? = 13715$$

Hence, option C is correct.

7.  $54321 - 5432 - 543 - 5 - 1 = ?$

$$? = 48340$$

Hence, option C is correct.

8.  $64 = 4^3; 16 = 4^2; 256 = 4^4$

Hence,

$$64 \times 16 \div 256 = (4)^{(?-3)}$$

$$4^{3+2-4} = (4)^{(?-3)}$$

$$4^1 = (4)^{(?-3)}$$

$$? - 3 = 1$$

$$? = 4$$

Hence, option B is correct.

9.

$$\frac{120.67 \times 198.87 \times 208.89}{12 \times 18 \times 11} = ?$$

$$\frac{120 \times 198 \times 209}{12 \times 18 \times 11} = ?$$

$$= 10 \times 11 \times 19 = 2090$$

Hence, option A is correct.

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10.  $\sqrt{(?)} + 196 \times 3 - 1029 = 83 \times 5$

$$\Rightarrow \sqrt{?} - 441 = 83 \times 5$$

$$\Rightarrow ? = (856)^2$$

$$\Rightarrow ? = 732736$$

Hence, option E is correct.



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