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

### Approximation Quiz 38

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

1.  $840.95^{1/2} + 17.49 \times 28 - 4096^{1/3} = ?$

- A. 495                      B. 475                      C. 509                      D. 515                      E. 503

2.  $(\sqrt{14.03} + \sqrt{27.99})^2 + 141.07 - 2\sqrt{392} = ?^2 - 106$

- A. 8                          B. 24                          C. 17                          D. 22                          E. 27

3.  $\sqrt[3]{14.98\% \text{ of } 750 - 34 \times 4.03} = ?^{1/3} - 33$

- A. 1350                      B. 1260                      C. 1100                      D. 1000                      E. 1240

4.  $912.898 - 27.001 \times ? - 288.878 = 219.003$

- A. 23                          B. 18                          C. 15                          D. 24                          E. 21

5.  $\sqrt[3]{2744.03} - \sqrt{840} + 11.07 = ? \div \sqrt[3]{8.02}$

- A. 4                            B. -8                            C. -5                            D. 15                            E. 20

6.  $324.995 \times 15.98 \div 4.002 + 36.88 = ?$

- A. 1300                      B. 1230                      C. 1440                      D. 1380                      E. 1340

7.  $1164 \times 128 \div 8.008 + 969.007 = ?$

- A. 18800                      B. 19000                      C. 19600                      D. 19200                      E. 18600

8.  $5554.999 \div 50.0007 = ?$

- A. 110                          B. 150                          C. 200                          D. 50                          E. 125

9.  $23.001 \times 18.999 \times 7.998 = ?$

- A. 4200                      B. 3000                      C. 3500                      D. 4000                      E. 2500

10.  $12.25 \times ? \times 21.6 = 3545.64$

- A. 14.8                          B. 12.6                          C. 15.8                          D. 13.4                          E. 16.2

**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>
E	C	D	C	B	E	C	A	C	D

**Explanations:**

1.  $840.95^{1/2} + 17.49 \times 28 - 4096^{1/3} = ?$

$$841^{1/2} + 17.5 \times 28 - 16 = ?$$

$$29 + 490 - 16 = ?$$

$$? = 519 - 16$$

$$? = 503$$

Hence, option E is correct.

2.  $(\sqrt{14.03} + \sqrt{27.99})^2 + 141.07 - 2\sqrt{392} = ?^2 - 106$

$$\approx (\sqrt{14} + \sqrt{28})^2 + 141 - 2\sqrt{392} = ?^2 - 106$$

$$\text{or, } (\sqrt{14})^2 + (\sqrt{28})^2 + 2 \times \sqrt{14 \times 28} + 141 - 2\sqrt{392} = ?^2 - 106$$

$$\text{or, } 14 + 28 + 2\sqrt{392} + 141 - 2\sqrt{392} = ?$$

$$\text{or, } 14 + 28 + 141 = ?^2 - 106$$

$$\text{or, } 183 = ?^2 - 106$$

$$\text{or, } ?^2 = 183 + 106$$

$$\text{or, } ?^2 = 289$$

$$? = 17$$

Hence, option C is correct.

3.  $\sqrt[3]{14.98\% \text{ of } 750 - 34 \times 4.03} = ?^{1/3} - 33$

$$\sqrt[3]{15\% \text{ of } 750 - 34 \times 4} \approx ?^{1/3} - 33$$

$$112.5 - 34 \times 4 + 33 = ?^{1/3}$$

$$113 - 136 + 33 = ?^{1/3}$$

$$?^{1/3} = 10$$

$$? = 1000$$

Hence, option D is correct.

4.  $912.898 - 27.001 \times ? - 288.878 = 219.003$

$$\approx 913 - 27 \times ? - 289 = 219$$

$$= 913 - 27 \times ? - 289 = 219$$

$$\therefore 624 - 27 \times ? = 219$$

$$\therefore 27 \times ? = 405$$

$$\therefore ? = 15$$

Hence, option C is correct.

5.  $\sqrt[3]{2744.03} - \sqrt{840} + 11.07 = ? \div \sqrt[3]{8.02}$

Approximate value:

$$\sqrt[3]{2744} - \sqrt{840} + 11.07 = ? \div \sqrt[3]{8}$$

$$14 - 29 + 11 = ? \div 2$$

$$25 - 29 = ? \div 2$$

$$-4 \times 2 = ?$$

$$? = -8$$

Hence, option B is correct.

6. By taking the approximate value for the expression, we have

$$324.995 \times 15.98 \div 4.002 + 36.88 = ?$$

$$? \approx 325 \times 16 \div 4 + 37$$

$$? \approx 325 \times 4 + 37$$

$$? \approx 1300 + 37$$

$$? \approx 1337 \approx 1340$$

Hence, option E is correct.

**7.** By taking the approximate value for the expression, we have

$$1164 \times 128 \div 8.008 + 969.007 = ?$$

$$1164 \times 128 \times \frac{1}{8.008} + 969.007 = ?$$

$$? \approx 1164 \times 128 \times \frac{1}{8} + 969$$

$$? = 1164 \times 16 + 969$$

$$? = 18624 + 969 = 19593 \approx 19600$$

Hence, option C is correct.

**8.** By taking the approximate value for the expression, we have

$$5554.999 \div 50.0007 = ?$$

$$5555 \div 50 \cong ?$$

$$? \cong 111.1$$

$$? \cong 110$$

Hence, option A is correct.

**9.** By taking the approximate value for the expression, we have

$$23.001 \times 18.999 \times 7.998 = ?$$

$$23 \times 19 \times 8 \cong ?$$

$$? = 3496$$

$$? \cong 3500$$

Hence, option C is correct.

**10.** By taking the approximate value for the expression, we have

$$12.25 \times ? \times 21.6 = 3545.64$$

$$12 \times ? \times 22 = 3546$$

$$264 \times ? = 3546$$

$$? \cong \frac{3546}{264}$$

$$? \cong 13.43$$

Hence, option D is correct.



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