

Union Bank of India UBI-Aptitude and Reasoning model questions

Directions (1-10) : What should come in place of the question mark (?) in the following questions ?

1. 38% of 4500 - 25% of ? = 1640

- (1) 260
- (2) 270
- (3) 280 (Ans)
- (4) 290
- (5) None of these

Explanations : $4500 * 38/100 - x * 25/100 = 1640$

- $\Rightarrow 1710 - 1640 = x/4$
- $\Rightarrow x/4 = 70$
- $\Rightarrow x = 280$

2. $(?)^2 + 15^2 - 33^2 = 97$

- (1) 33
- (2) 32
- (3) 34
- (4) 30
- (5) None of these (Ans)

Explanations : $x^2 + 15^2 - 33^2 = 97$

- $\Rightarrow x^2 = 97 + 1089 - 725$
- $\Rightarrow x^2 = 1186 - 225 = 961$
- $\Rightarrow x = 31$

3. $(7921 + 178) - 5.5 = \sqrt{x}$

- (1) 1512
- (2) 1521 (Ans)
- (3) 1251
- (4) 1531
- (5) None of these

Explanations : $7921 / 178 - 5.5 = \sqrt{x}$

- $44.5 - 5.5 = \sqrt{x}$
- $\Rightarrow 39.0 = \sqrt{x}$
- $\Rightarrow x = 1521$

4. $9/10 + 3/11 + 7/15 = ?$

- (1) 1 217/330
- (2) 1 221/330
- (3) 1 211/330 (Ans)
- (4) 1 197/330
- (5) None of these

Explanations : $\frac{9}{10} + \frac{3}{11} + \frac{7}{15} = \frac{297 + 90 + 154}{330} = \frac{541}{330}$

$$= 1 \frac{211}{330}$$

5. $\frac{1}{4}$ th of $\frac{1}{2}$ of $\frac{3}{4}$ th of 52000 = ?

- (1) 4875 (Ans)
- (2) 4857
- (3) 4785
- (4) 4877
- (5) None of these

Explanations : $52000 * \frac{3}{4} * \frac{1}{2} * \frac{1}{4} = 4875$

6. $\frac{57}{67} * \frac{32}{171} * \frac{45}{128} = ?$

- (1) $\frac{15}{262}$
- (2) $\frac{15}{268}$ (Ans)
- (3) $\frac{15}{266}$
- (4) $\frac{17}{268}$
- (5) None of these

Explanations : $\frac{57}{67} * \frac{32}{171} * \frac{45}{128} = \frac{15}{268}$

7. $283 * 56 + 252 = 20 * ?$

- (1) 805 (Ans)
- (2) 803
- (3) 807
- (4) 809
- (5) None of these

Explanations : $283 * 56 + 252 = 20 * x$

$$\Rightarrow 15848 + 252 = 20 * x$$
$$\Rightarrow x = \frac{16100}{20}$$
$$\Rightarrow x = 805$$

8. $(5863 - \sqrt{2704}) * 0.5 = ?$

- (1) 2955.5
- (2) 2905.5 (Ans)
- (3) 2590.5
- (4) 2909.5
- (5) None of these

Explanations : $(5863 - \sqrt{2704}) * 0.5$
 $= 2905.5$

9. $3\sqrt{42875} - ? = 21$

- (1) 18
- (2) 13
- (3) 15
- (4) 11
- (5) None of these (Ans)

Explanations : $\sqrt{42875} - x = 21$

$$35 - x = 21$$

$$x = 14$$

10. $25639 - 5252 - 3232 = ?$

(1) 17255

(2) 17551

(3) 17515

(4) 17155 **(Ans)**

(5) None of these

Explanations : $25639 - 5252 - 3232 - 25639 - 8484 = 17155$

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