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Mixed Quant and Data Sufficiency Questions for SBI Clerk Pre

SBI Clerk Pre Maths Quiz 3

Direction: Study the following questions carefully and choose the right answer.

1. A sum of Rs. 3,240 was fixed to complete a work. 54 workers completed the work in 8 days and the sum was divided equally among the workers. If the work was to be completed in 3 days then how much less money each worker would receive compared to when the work was completed in 8 days (sum is divided equally among the workers)?

- A. Rs. 22.5 B. Rs. 37.5 C. Rs. 27.5
D. Rs. 32.5 E. None of these

2. If an article was sold at 18% profit on cost price then the selling price of the article was Rs. 9381. What would have been the selling price of the article if it was sold at 25% profit?

- A. Rs. 9937.5 B. Rs. 9984.5 C. Rs. 9927.5
D. Rs. 9947.5 E. None of these

3. In a mixture of milk and water, the concentration of milk becomes 40% if one litre of water is added in that mixture. After adding another one litre water, the concentration of milk becomes 33.33%. find the concentration of milk in the original mixture?

- A. 50% B. 60% C. 75%
D. 45% E. None of these

4. If the difference between the compound interest and simple interest on a sum of money for 2 years at 4% per annum is Rs. 39.68 then find the sum of simple interest and compound interest for two years on the same sum of money and at the same rate of the interest?

- A. Rs. 4006.68 B. Rs. 4007.68 C. Rs. 4005.68
D. Rs. 4009.68 E. None of these

5. Ratio of speed of boat in still water to speed of stream 8 : 1. 67.5 km is travelled downstream in 2.5 hours. Difference between speed of boat in still water and speed of stream?

- A. 10 km/hr B. 13 km/hr C. 21 km/hr
D. 18 km/hr E. None of these

6. Each of the questions below consists of a question. You have to decide whether the data provided in the statements are sufficient to answer the question.

What is the age of teacher?

- I. In a class of 20 students the average age of students is 21 and it increases to x if the age of teacher is included.**
II. In a class of 10 students the average age of students and teacher is 22 years

- A. Only I is sufficient B. Only II is sufficient C. Either I or II is sufficient
D. Neither I nor II is sufficient
E. Both I and II are sufficient

7. In each of the following problems, there is one question and three statements I, II and III given below the question. You have to decide whether the data given in the statements is sufficient to answer the question. Read all the statements carefully and find which of the statements is/are sufficient to answer the given question. Choose the correct alternative in each question.

What is the area of a right-angled triangle?

- I. The base of the triangle is A cm.**
II. The height of the triangle is B cm.
III. The hypotenuse of the triangle is C cm.

- A. Only I & II are sufficient B. Only II is sufficient C. Only II & III are sufficient
D. Any two of the three is sufficient
E. None of the above is sufficient

8. Directions: In each of the following questions, read the given statement and compare the Quantity I and Quantity II on its basis. (only quantity is to be considered)

Quantity I : The area of a rectangle and the ratio of the perimeter is 35: 8. What is the length of the rectangle if the breadth of the rectangle is 15 cm?

Quantity II : $\sqrt{625} - 1$

- A. Quantity : I > Quantity : II
- B. Quantity : I \geq Quantity : II
- C. Quantity : I < Quantity : II
- D. Quantity : II \geq Quantity : I
- E. Quantity I = Quantity II or relation can't be established

9. Directions: In each of the following questions, read the given statement and compare the Quantity I and Quantity II on its basis. (only quantity is to be considered)

Quantity I: In an election, there were total 10000 votes. 75% were valid votes & winner candidate won by 2250 votes. How many votes did the winner get?

Quantity II: 4900

- A. Quantity : I > Quantity : II
- B. Quantity : I \geq Quantity : II
- C. Quantity : I < Quantity : II
- D. Quantity : II \geq Quantity : I
- E. Quantity I = Quantity II or relation can't be established

10. Directions: In each of the following questions, read the given statement and compare the Quantity I and Quantity II on its basis. (only quantity is to be considered)

Quantity I: The average age of A, B, and C is 22 years. 3 years ago the average age of B, and C was 18 years. Find the age of A, 9 years hence

Quantity II: 32

- A. Quantity : I > Quantity : II
- B. Quantity : I \geq Quantity : II
- C. Quantity : I < Quantity : II
- D. Quantity : II \geq Quantity : I
- E. Quantity I = Quantity II or relation can't be established



Correct answers:

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

Explanations:

1.

Total number of workers need to complete the work in 3 days = $M1D1 = M2D2$

Let the number of workers = x

then $54 \times 8 = X \times 3$, $x = 18 \times 8 = 144$

Each worker will receive =

$$\frac{3240}{144} = 22.5$$

In the first case when the work was completed in 8 days each worker received

$$= \frac{3240}{54} = 60$$

Required difference = Rs. 37.5

Hence, option B is correct.

2.

Let the CP of the article = x

Then 18% profit on $x = (100 + 18)\%$ of $x = 9381$

$$X = \frac{9381 \times 100}{118} =$$

$$79.5 \times 100 = 7950 = cp$$

When article was sold at 25% profit then $CP = 125\%$ of $7950 = 9937.5$

Hence, option A is correct.

3.

Let the quantity of milk in the original mixture = x litres

And the quantity of water = y litres

The total quantity of mixture = x + y litres

When 1 litre of water is added then the total quantity of the mixture = x + y + 1 litres

According to the question, x = quantity of milk = 40% of (x + y + 1)

$$3x = 2y + 2 \dots (i)$$

After adding another 1 litre of water, the quantity of mixture = x + y + 1 + 1 = x + y + 2 litres

Now, according to the question, x = quantity of milk will become = 33.33% of (x + y + 2)

$$3x = x + y + 2$$

$$2x = y + 2 \dots (ii)$$

By solving equation (i) and equation (ii)

$$x = 2 \text{ and } y = 2$$

The concentration of the milk in the mixture

$$= \frac{2 \times 100}{4} = 50\%$$

Hence, option A is correct.

4.

Let the principal = x

$$SI = X \times 2 \times \frac{4}{100}$$

$$CI = X \left(1 + \frac{4}{100}\right)^2 - X$$

$$CI - SI = [X(1 + \frac{4}{100})^2$$

$$- X] - X \times 2 \times \frac{4}{100}$$

By solving, $x = 24800$

$$CI + SI =$$

$$[24800 (1 + \frac{4}{100})^2 - 24800] -$$

$$24800 \times 2 \times \frac{4}{100}$$

By solving, $CI + SI = 4007.68$

Hence, option B is correct.

5.

Downstream speed of boat

$$= \frac{67.5}{2.5} \text{ km/hr} = 27 \text{ km/hr}$$

Ratio of speed of boat in still water to speed of stream = 8 : 1

So, 9 units = 27 km/hr

1 unit = 3 km/hr

∴ Difference between speed of boat in still water and speed of stream = $(8 - 1) = 7$ units

= $7 \times 3 = 21$ km/hr.

Hence, option C is correct.

6.

We cannot find the age of teacher with the given data.



Hence, option D is correct.

7.

We know that the area of right-angled triangle

$$= \frac{1}{2} \times \text{base} \times \text{height}$$

$$\text{And Hypotenuse} = \sqrt{\text{base}^2 + \text{height}^2}$$

Combining any two of three given statements we can find the area of triangle.

Hence, option D is correct.

8.

Quantity I:

$$\frac{\text{Area of rectangle}}{\text{Perimeter of rectangle}} = \frac{l \times b}{2(l + b)} = \frac{35}{8}$$

$$\therefore 8 \times l \times b = 70(l + b)$$

$$\text{Now } b = 15 \text{ cm [Given]}$$

$$\therefore 8 \times l \times 15 = 70(l + 15)$$

Solving we get

$$l = 21 \text{ cm}$$

$$\text{Quantity II: } \sqrt{625} - 1 = 25 - 1 = 24$$

Thus, 24 is greater than 21.

Hence, Quantity I < Quantity II.

Hence, option C is correct.

9.

Quantity I :

Total votes = 10000

Valid votes = 75% of 10000 = 7500

Let winner get 'x' votes

∴ Runner up get (7500 – x) votes

$$x - (7500 - x) = 2250$$

$$2x = 2250 + 7500$$

$$\therefore x = \frac{9750}{2} = 4875 \text{ votes}$$

Quantity II: 4900

Thus, 4900 > 4875

Hence, Quantity I < Quantity II.

Hence, option C is correct.

10.

Quantity I :

Sum of Ages of A,B,C = $22 \times 3 = 66$ years

Average age of B & C 3 years ago = 18 years

∴ Present average age of B & C = 21 years

∴ Sum of ages of B & C = $21 \times 2 = 42$ years

∴ Present age of A = $66 - 42 = 24$ years

∴ Age of A, 9 years hence = $24 + 9 = 33$ years

Quantity II: 32

Therefore, $33 > 32$

Hence, Quantity I $>$ Quantity II.

Hence, option A is correct.



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