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Data Sufficiency Questions for Bank Clerk Pre Exams – Data Sufficiency Quiz at Smartkeeda.

Data Sufficiency Quiz 1

Directions: Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer:

1. What is the marked price of the shirt?

I. A shopkeeper purchases 2 shirts for 2200 Rs. and earns 55 Rs. per shirt after giving 23% discount.

II. A shopkeeper marks the price 36% more than the cost price and earns 200 Rs. after giving some discount.

A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

C. The data in statements I alone or in statement II alone is sufficient to answer the question.

D. The data in both the statements I and II is not sufficient to answer the question.

E. The data in both the statements I and II together is necessary to answer the question.

2. What is the present age of Sanjeev?

I. Sanjeev is 4 years younger than Anuj. The ratio of the age of Anuj and Vipin is 4 : 5.

II. Vipin is 1 year older than Sanjeev and the present age of Anuj is 20 years.

III. The present age of Sanjeev is 5 years less than the age of Mohan.

A. The data in statements I and II are sufficient to answer the question, while the data in statement III alone is not sufficient to answer the question.

B. The data in statements II alone is sufficient to answer the question, while the data in statement I and III are not sufficient to answer the question.

C. The data in statements I alone or in statement II alone or Statement III alone is sufficient to answer the question.

- D. The data in all the statements I, II and III are not sufficient to answer the question.
- E. The data in all the statements I, II and III together are necessary to answer the question.

3. What is the length of the train X?

- I. Two trains X and Y running in opposite directions and cross each other in 25 seconds.**
- II. The length of the train Y is 320m and the difference between the speeds of trains X and Y is 14 km/h.**
- III. The ratio of the speed of the trains is 19 : 26.**

- A. The data in statements I and statements II are sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- B. The data in statements II alone is sufficient to answer the question, while the data in statement I and III is not sufficient to answer the question.
- C. The data in statements I alone or in statement II alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- D. The data in all the statements I, II and III is not sufficient to answer the question.
- E. The data in all the statements I, II and III together is necessary to answer the question.

4. Find the height of the cylinder.

- I. The Curved surface area of the cylinder is 396 cm² and the total surface area of the cylinder is 1628 cm².**
- II. The radius of the cylinder is 0.5 cm more than the 3 times of the height of the cylinder.**

- A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- C. The data in statements I alone or in statement II alone is sufficient to answer the question.
- D. The data in both the statements I and II is not sufficient to answer the question.
- E. The data in both the statements I and II together is necessary to answer the question.

5. Find the rate of interest.

- I. A sum of money becomes double of itself at simple interest in 12.5 years.**

II. 5000 becomes 5832 in 2 years at compound interest.

- A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- C. The data in statements I alone or in statement II alone is sufficient to answer the question.
- D. The data in both the statements I and II is not sufficient to answer the question.
- E. The data in both the statements I and II together is necessary to answer the question.

6. Total amount of Rs 62500 was distributed among two boys and 1 girl. How much did each boy get?

I. Each girl got $\frac{2}{3}$ of what the two boys together got.

II. The difference between the amount of two boys is Rs 12500.

- A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- C. The data in statements I alone or in statement II alone is sufficient to answer the question.
- D. The data in both the statements I and II is not sufficient to answer the question.
- E. The data in both the statements I and II together is necessary to answer the question.

7. Seema and Reena are two sisters. What is the present age of Seema?

I. Seema is 5 years younger than her brother.

II. The ratio of the present ages of Reena and her brother is 3 : 5.

III. After 7 years Reena's age will be 22 years.

- A. The data in statements I and II is sufficient to answer the question, while the data in statement III alone is not sufficient to answer the question.
- B. The data in statements II and III is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- C. The data in statements I alone or in statement II alone is sufficient to answer the question.
- D. The data in both the statements I, II and III is not sufficient to answer the question.

E. The data in all the statements I, II and III together is necessary to answer the question.

8. What is the cost price of a suit?

I. The marked price of 21 suits is Rs 10500.

II. The profit earned by shopkeeper on a suit is 20% more than the profit earned by shopkeeper on a saree.

A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

C. The data in statements I alone or in statement II alone is sufficient to answer the question.

D. The data in both the statements I and II is not sufficient to answer the question.

E. The data in both the statements I and II together is necessary to answer the question.

9. What is the area of the square?

I. The side of the square is 30% more than the length of the rectangle.

II. The perimeter of the rectangle is 25 cm more than the circumference of the circle.

III. The perimeter of the square is 84 cm.

A. The data in statements III alone is sufficient to answer the question, while the data in statement I and II is not sufficient to answer the question.

B. The data in statements II and III is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

C. The data in statements I alone or in statement III alone is sufficient to answer the question.

D. The data in both the statements I, II and III is not sufficient to answer the question.

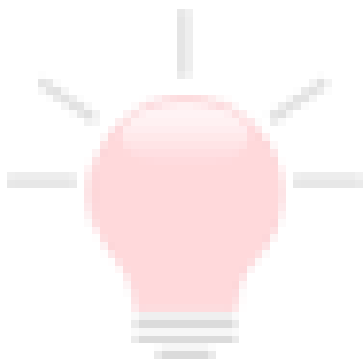
E. The data in all the statements I, II and III together is necessary to answer the question.

10. Find the amount invested by Ruma in the business.

I. Total profit earned by three partners Ruma, Seema and Sarita is Rs 27500.

II. Seema and Sarita invested Rs 25000 and Rs 32000 Respectively.

- A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- C. The data in statements I alone or in statement II alone is sufficient to answer the question.
- D. The data in both the statements I and II is not sufficient to answer the question.
- E. The data in both the statements I and II together is necessary to answer the question.



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Correct Answers:

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

Explanations:**1. From Statement I:**

Cost price of a shirt = 1100 Rs.

Selling price = 1100 + 55 = 1155 Rs.

Marked price = $\frac{1155}{77} \times 100 = 1500$ Rs.

Statement I is sufficient to answer the question.

From Statement II:

Let the cost price = x Rs.

Marked price = $x \times 136\% = 1.36x$

Selling price = $x + 200$

Statement II is not sufficient to answer the question.

Hence, option A is correct.

2. From Statement I:

Let Anuj = 4x, Vipin = 5x

Sanjeev = 4x + 4

From Statement II:

Anuj = 20 years, Sanjeev = x, Vipin = x + 1

Statement III:

Let age of Mohan = m years

Sanjeev = m - 5 years

From Statement I + Statement II:

Anuj = 20 years, Vipin = $\frac{20}{4x} \times 5x = 25$ years

Sanjeev = 25 - 1 = 24 years

Statement I and II both are necessary to answer the question.

Hence, option A is correct.

3. From Statement I:

Time = 25 seconds

Relative speed = $\frac{\text{length of trains}}{\text{time}}$

$$= \frac{\text{length of trains}}{25}$$

From Statement II:

Length of train Y = 320m

Difference of speed = 14 km/h

From Statement III:

Let the speeds = 19x, 26x

Statement I + Statement II + Statement III

$$26x - 19x = 14$$

$$7x = 14$$

$$x = 2$$

Speed = 52 km/h, 38 km/h

$$(52 + 38) \times \frac{5}{18} = \frac{(a + 320)}{25}$$

$$25 \times 25 = a + 320$$

$$625 - 320 = a$$

$$a = 305 \text{ m}$$

Therefore, all the statements are necessary to answer the question.

Hence, option E is correct.

4. From Statement I:

Let radius = r, height = h

Curved surface area = $2\pi rh$

$$396 = 2 \times \frac{22}{7} \times r \times h$$

$$r \times h = 63$$

Total Surface area = $2\pi rh + 2\pi r^2$

$$1628 = \frac{22}{7}(rh + r^2)$$

$$rh + r^2 = 259$$

$$63 + r^2 = 259$$

$$r^2 = 259 - 63 = 196$$

$$r = 14$$

$$r \times h = 63$$

$$14 \times h = 63$$

$$h = 4.5 \text{ cm}$$

Statement I is alone sufficient to answer the question.

From Statement II:

$$r = 3h + 0.5$$



Statement II is not alone sufficient to answer the question.

Hence, option A is correct.

5. From Statement I:

Let sum = x, rate = y%

$$x = x \times 12.5 \times y\%$$

$$y = 8\%$$

Statement I is alone sufficient to answer the question.

From Statement II:

$$A = P\left(1 + \frac{r}{100}\right)^t$$

$$5832 = 5000\left(1 + \frac{r}{100}\right)^2$$

$$\frac{5832}{5000} = \left(1 + \frac{r}{100}\right)^2$$

$$\frac{729}{625} = \left(1 + \frac{r}{100}\right)^2$$

$$\frac{27}{25} = 1 + \frac{r}{100}$$

$$\frac{27}{25} - 1 = \frac{r}{100}$$

$$\frac{2}{25} = \frac{r}{100}$$

$$r = 8\%$$

Statement II is also alone sufficient to answer the question.

Hence, option C is correct.

6. Statement I:

Let the boys got = Rs.a.

$$\text{Girl got} = a \times \frac{2}{3} = \frac{2a}{3}$$

Statement II:

Let boys got = x, x + 12500

Statement I + Statement II:

$$x + x + 12500 + (x + x + 12500) \times \frac{2}{3} = 62500$$



$$2x + 12500 + (2x + 12500) \times \frac{2}{3} = 62500$$

$$2x + 12500 + \frac{4x}{3} + \frac{25000}{3} = 62500$$

$$6x + 37500 + 4x + 25000 = 62500 \times 3$$

$$10x + 62500 = 187500$$

$$10x = 125000$$

$$x = 12500$$

Boys get = Rs.12500 , Rs.25000

Both the statements are necessary to give the answer.

Hence option E is correct.

7. We can't solve this question by 1 or 2 or 3 Statement alone. We can solve this question by all the statements together.

Statement I + Statement II + Statement III:

Reena's present age = $22 - 7 = 15$ years

Her brother's age = $\frac{15}{3} \times 5 = 25$ years

Seema's age = $25 - 5 = 20$ years

All the statements are necessary to give the answer.

Hence, option E is correct.

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8. Statement I:

Marked price of a suit = $\frac{10500}{21} = \text{Rs.}500$

Statement II:

Let the profit on a saree = x Rs

the profit on a suit = $x \times 120\%$

Statement I and Statement II both are not sufficient to answer the question.

Hence, option D is correct.

9. Statement I:

Let the length of the rectangle = x cm, side of the square = $x \times 130\%$

Statement II:

$$2(l + b) - 2\pi r = 25$$

Statement III:

$$4 \times \text{side} = 84$$

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

Area of the square = $21^2 = 441 \text{ cm}^2$

Statement III is alone sufficient to answer the question.

Hence, option A is correct.

10. Statement I:

Total profit = 27500 Rs

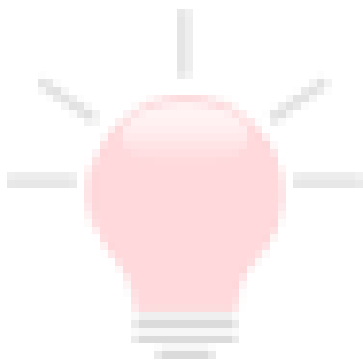
Statement II:

Seema's investment = 25000 Rs

Sarita's investment = 32000 Rs

Statement I and II both are not sufficient to give the answer.

Hence, option D is correct.



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