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## Data Sufficiency Quiz Questions for IBPS RRB SCALE –I (Mains) Quiz at Smartkeeda.

### Data Sufficiency Quiz 19

**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. A boat goes downstream 6 km in 30 minutes and comes back to original point in R minutes. Find R if:**

**Statement I :** Stream speed of the river is one-sixth the downstream speed of the boat.

**Statement II :** Ratio of upstream and downstream speed of the boat is 2 : 3.

- A. If the data in statement I alone is sufficient to answer the question while data in statement II alone is not sufficient to answer the question
- B. If the data in statement II alone is sufficient to answer the question while data in statement I alone is not sufficient to answer the question
- C. If data either in statement I alone or statement II alone are sufficient to answer the question
- D. If data in both statements I & II together are necessary to answer the question
- E. If data given in both I & II together are not sufficient to answer the question

**2. Ratio of number of days required to finish a given work by Kishan, Dhruv and Chandan is 5:8:10. Find in how many days Kishan and Chandan can finish the work together:**

**Statement I :** Kishan is 100% more efficient than Chandan.

**Statement II :** Dhruv needs four less days than Chandan.

- A. If the data in statement I alone is sufficient to answer the question while data in statement II alone is not sufficient to answer the question
- B. If the data in statement II alone is sufficient to answer the question while data in statement I alone is not sufficient to answer the question
- C. If data either in statement I alone or statement II alone are sufficient to answer the question
- D. If data in both statements I & II together are necessary to answer the question
- E. If data given in both I & II together are not sufficient to answer the question

**3. Height of four friends A, B, C and D is measured. Height of B is 4 cm more than A and that of C is 4 cm more than B. Find the difference between the height of D and B:**

**Statement I :** Height of D is equal to the average height of A, B, C and D.

**Statement II :** Difference between the height of C and A is 8 cm.

- A. If the data in statement I alone is sufficient to answer the question while data in statement II alone is not sufficient to answer the question
- B. If the data in statement II alone is sufficient to answer the question while data in statement I alone is not sufficient to answer the question
- C. If data either in statement I alone or statement II alone are sufficient to answer the question
- D. If data in both statements I & II together are necessary to answer the question
- E. If data given in both I & II together are not sufficient to answer the question

**4. Marked price of an item is double its cost price. The profit is 60%. Find the selling price:**

**Statement I :** If the cost price is increased by Rs. 50 without changing the selling price the profit becomes 33.33%.

**Statement II :** Discount on the item was Rs. 100.

- A. If the data in statement I alone is sufficient to answer the question while data in statement II alone is not sufficient to answer the question
- B. If the data in statement II alone is sufficient to answer the question while data in statement I alone is not sufficient to answer the question
- C. If data either in statement I alone or statement II alone are sufficient to answer the question
- D. If data in both statements I & II together are necessary to answer the question
- E. If data given in both I & II together are not sufficient to answer the question



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5. Three containers A, B and C have mixture of alcohol and water in ratio 5:4, 3:1, and 4:3 respectively. Container A and C have equal volume of alcohol. Find the volume of water in container B:

**Statement I :** Water in container B is 7 litres less than the water in container C.

**Statement II :** Ratio of volume of mixture in container A and B is 9 : 8.

- A. If the data in statement I alone is sufficient to answer the question while data in statement II alone is not sufficient to answer the question
- B. If the data in statement II alone is sufficient to answer the question while data in statement I alone is not sufficient to answer the question
- C. If data either in statement I alone or statement II alone are sufficient to answer the question
- D. If data in both statements I & II together are necessary to answer the question
- E. If data given in both I & II together are not sufficient to answer the question



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**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
C	B	A	C	D

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## Explanations:

1.

Let the still water speed of boat be 'b' kmph and stream speed of river be 'w' kmph.

$$\frac{6}{b+w} = \frac{30}{60} \rightarrow b+w = 12 \text{ -----(i)}$$

$$\frac{6}{b-w} = \frac{R}{60} \rightarrow b-w = \frac{360}{R} \text{ -----(ii)}$$

**Statement I :** Stream speed of the river is one-sixth the downstream speed of the boat.

$$\text{We have } 6w = b+w \rightarrow b = 5w$$

Using (i) and (ii), we can easily find the answer.

**Statement II :** Ratio of upstream and downstream speed of the boat is 2 : 3.

$$\text{We have } (b-w) : (b+w) = 2 : 3 \rightarrow b/w = 5$$

Using (i) and (ii), we can easily find the answer.

Hence, option C is correct.

2.

Let the number of days needed by Kishan, Dhruv and Chandan is 5n, 8n and 10n days.

**Statement I :** Kishan is 100% more efficient than Chandan.

This information is available in the ratio itself. So, we have no new information.

**Statement II :** Dhruv needs four less days than Chandan.

$$10n - 8n = 4 \rightarrow n = 2$$

We can find the number of days for the two people separately and therefore we can find the answer.

Hence, option B is correct.

3.

Let height of A = 'a' cm, then height of B = (a + 4) cm and that of C = (a + 8) cm.

Let height of D = 'd' cm

**Statement I :** Height of D is equal to the average height of A, B, C and D.

$$\text{Then, } d = \frac{[a + (a + 4) + (a + 8) + d]}{4}$$

$$\rightarrow d = a + 4 = \text{height of B} \text{ ----(i)}$$

Means height of D is equal to the height of B.

We can answer the question.

**Statement II :** Difference between the height of C and A is 8 cm.

There is no new information in this statement.

We cannot answer the question using statement II.

Hence, option A is correct.

4.

	Cost Price	Selling Price	Marked Price
Item	100y	160y	200y

**Statement I :** If the cost price is increased by Rs. 50 without changing the selling price the profit becomes 33.33%.

$$(100y + 50) + 33.33\% \text{ of } (100y + 50) = 160y \rightarrow y = 2.5$$

We can easily find the answer.

**Statement II :** Discount on the item was Rs. 100.

$$200y - 100 = 160y \rightarrow y = 2.5$$

We can easily find the answer.

Hence, option C is correct.

5.

We have the following information.

A		B		C	
alcohol	Water	alcohol	water	Alcohol	water
5p	4p	3q	q	4r	3r

Also, we have  $5p = 4r \rightarrow p = 0.8r$

We get

A		B		C	
alcohol	Water	Alcohol	water	Alcohol	water
4r	3.2r	3q	q	4r	3r

**Statement I :** Water in container B is 7 litres less than the water in container C.

We have  $q = 3r - 7$  -----(i)

We have to find 'q' but here we have two variables and only one equation. We cannot find the answer.

**Statement II :** Ratio of volume of mixture in container A and B is 9 : 8.

We have  $7.2r : 4q = 9 : 8 \rightarrow \frac{r}{q} = \frac{5}{8}$  -----(ii)

We have to find 'q' but here we have two variables and only one equation. We cannot find the answer.

**Statement I and II :**

Using (i) and (ii), we get

We have  $q = 3 \frac{5q}{8} - 7 \rightarrow q = 8$

We can find the answer using both the statements.

Hence, option D is correct.



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