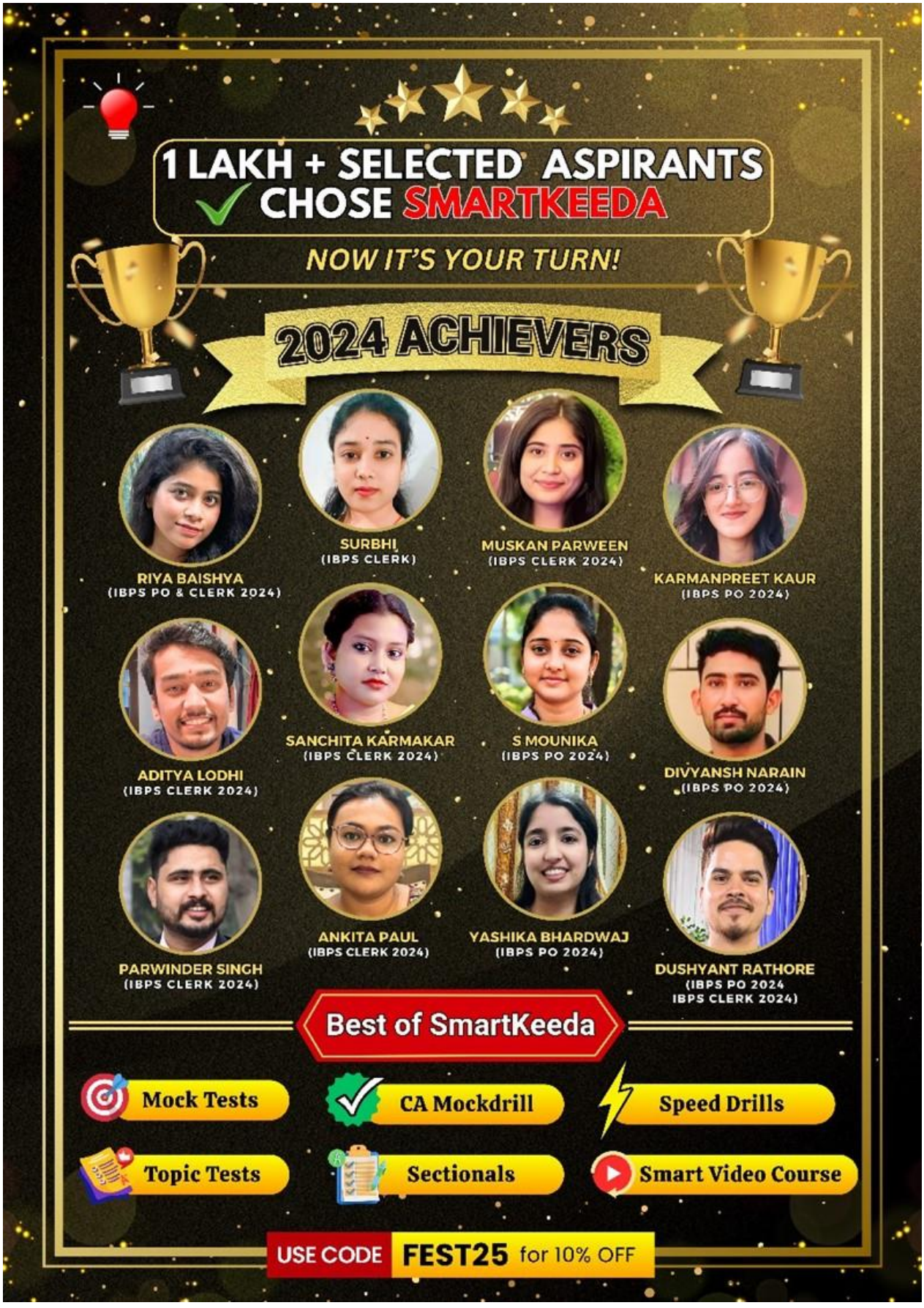
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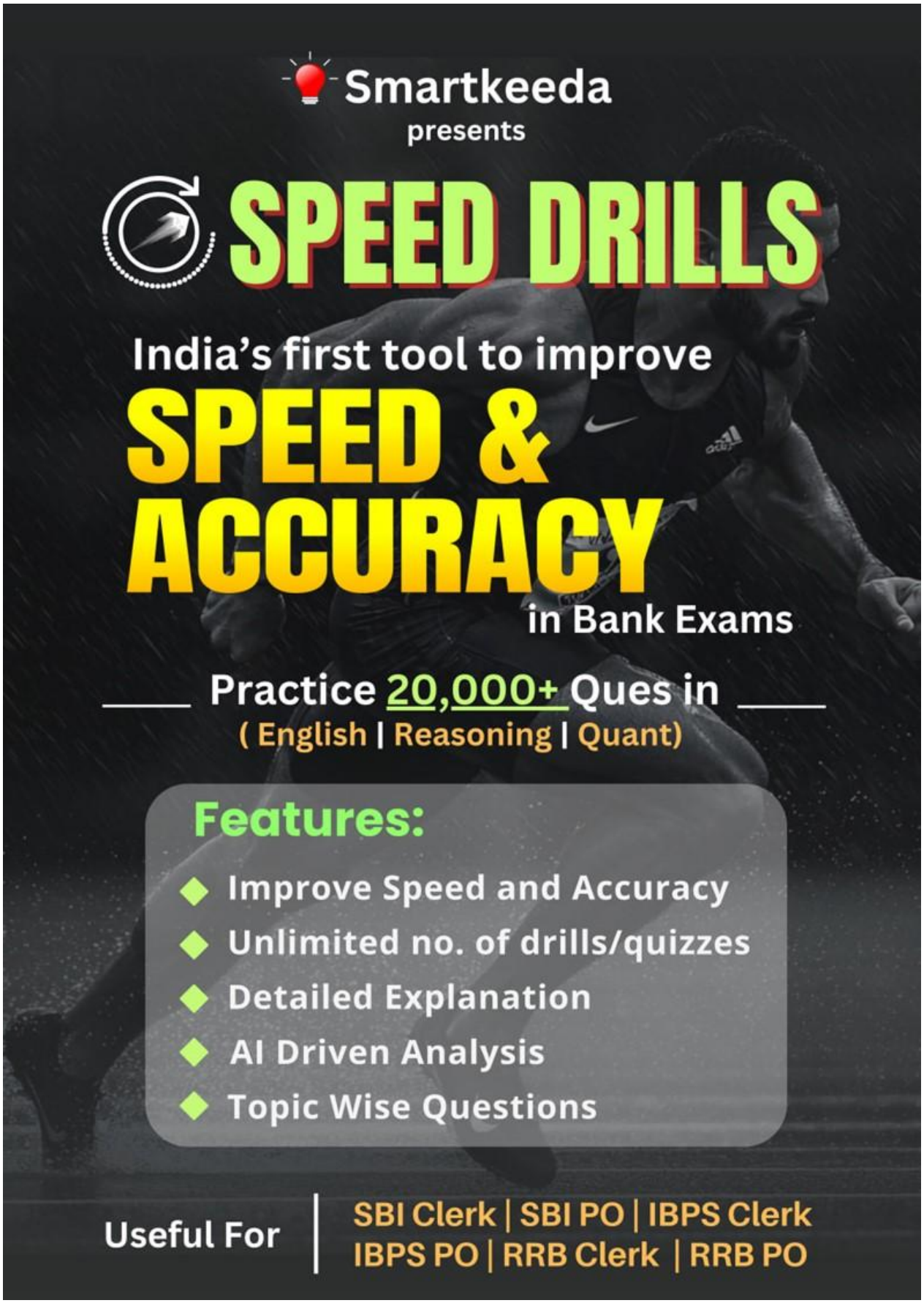
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Data Sufficiency Quiz Questions for IBPS RRB SCALE –I (Mains) Quiz at Smartkeeda.

Data Sufficiency Quiz 18

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. An item is such that its marked price is increased by 100% to its cost price. It is sold at Rs. 40 discount. Find the selling price:

Statement I : The cost price was Rs. 100 less than the marked price.

Statement II : The profit was Rs. 60.

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. Two containers A and B have mixture of milk and water. The ratio of milk to water in both is equal to 5 : 1. Find the ratio of water in A to that of B:

Statement I : Ratio of milk in A to B is 2 : 3.

Statement II : Ratio of milk in A to water in B is 10 : 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

3. A person deposits some money in a bank account which gives a simple interest of R% pa in first year, (R + 2)% pa in second year, and (R + 4)% pa in third year. Find the value of R:

Statement I : He gets double the amount he had deposited at the end of third year.

Statement II : He gets Rs. 40,000 more at the end of third year than what he had deposited.

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. Two friends Ram and Shyam can do work alone in Y and Z days respectively. Find the sum of Y and Z:

Statement I : If Ram does at 37.5% less efficiency and Shyam does at 25% more efficiency, they need equal number of days to finish the work alone.

Statement II : Difference between Y and Z is 50.

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

5. A bag has balls of three colors namely black, white and red. Number of black balls is four less than the number of white balls while red balls are eight more than the number of white balls. Find the probability of finding two white balls:

Statement I : Probability of finding three black balls is 7/1235.

Statement II : Sum of number of balls is 40.

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

Correct Answers:

1	2	3	4	5
C	C	A	D	C

Explanations:

1.

Let the cost price was Rs. 100C, then marked price = 200C, and selling price = (200C – 40)

Statement I : The cost price was Rs. 100 less than the marked price.

200C – 100C = 100 → C = 1

The selling price = (200 × 1 – 40) = 160

Statement II : The profit was Rs. 60.

(200C – 40) – 100C = 60 → C = 1

The selling price = (200 × 1 – 40) = 160

Hence, option C is correct.

2.

We have

	Milk	Water
A	5n	1n
B	5m	1m

Statement I : Ratio of milk in A to B is 2 : 3.

5n : 5m = 2 : 3 → n : m = 2 : 3

That is the answer we needed to find.

Statement II : Ratio of milk in A to water in B is 10 : 3

5n : 1m = 10 : 3 → n : m = 2 : 3

That is the answer we needed to find.

Hence, option C is correct.

3.

Let he had deposited Rs. Q.

Statement I : He gets double the amount he had deposited at the end of third year.

Then, after three years we will have,

$$Q + \frac{(Q \times R \times 1)}{100} + \frac{(Q \times (R+2) \times 1)}{100} + \frac{(Q \times (R+4) \times 1)}{100}$$

$= 2Q \rightarrow R + (R+2) + (R+4) = 100$

We can easily find R.

Statement II : He gets Rs. 40,000 more at the end of third year than what he had deposited.

$$Q + \frac{(Q \times R \times 1)}{100} + \frac{(Q \times (R+2) \times 1)}{100} + \frac{(Q \times (R+4) \times 1)}{100}$$

$= Q + 40{,}000$

$$Q + \left[1 + \frac{R}{100} + \frac{(R+2)}{100} + \frac{(R+4)}{100}\right] = Q + 40{,}000$$

$$1 + \frac{R}{100} + \frac{(R+2)}{100} + \frac{(R+4)}{100} = 1 + \frac{40{,}000}{Q}$$

$$\frac{R}{100} + \frac{(R+2)}{100} + \frac{(R+4)}{100} = \frac{40{,}000}{Q}$$

We cannot find R as we do not have Q in the equation.

Hence, option A is correct.

4.

Part of work Ram daily does = $\frac{1}{Y}$

Part of work Shyam daily does = $\frac{1}{Z}$

Statement I : If Ram does at 37.5% less efficiency and Shyam does at 25% more efficiency, they need equal number of days to finish the work alone.

$\frac{0.625}{Y} = \frac{1.25}{Z} \rightarrow \frac{Y}{Z} = \frac{1}{2}$ ---(i)

We cannot find the answer.

Statement II : Difference between Y and Z is 50.

Y – Z = 50 ---(ii)

Z – Y = 50 ---(iii)

We cannot find the answer.

Statement I and II :

From statement I, we identify that Y < Z,

From equation (i) and (iii), we get

Y = 50 and Z = 100

Hence, option D is correct.

5.

Let the number of white balls be 'w', then

Number of black balls = (w – 4)

Number of red balls = (w + 8)

Total = (3w + 4)

Probability of finding two white balls = $\frac{^{w}C_2}{^{(3w+4)}C_2}$ .....(i)

Statement I : Probability of finding three black balls is 7/1235

Probability of finding three black balls

$= \frac{^{(w-4)}C_3}{^{(3w+4)}C_3} = \frac{7}{1235}$

By solving this, we can find a value for 'w' by putting which in the expression (i), we can find the answer.

Statement II : Sum of number of balls is 40.

(3w + 4) = 40 → w = 12

We can find the answer by putting w in (i).

Hence, option C is correct.