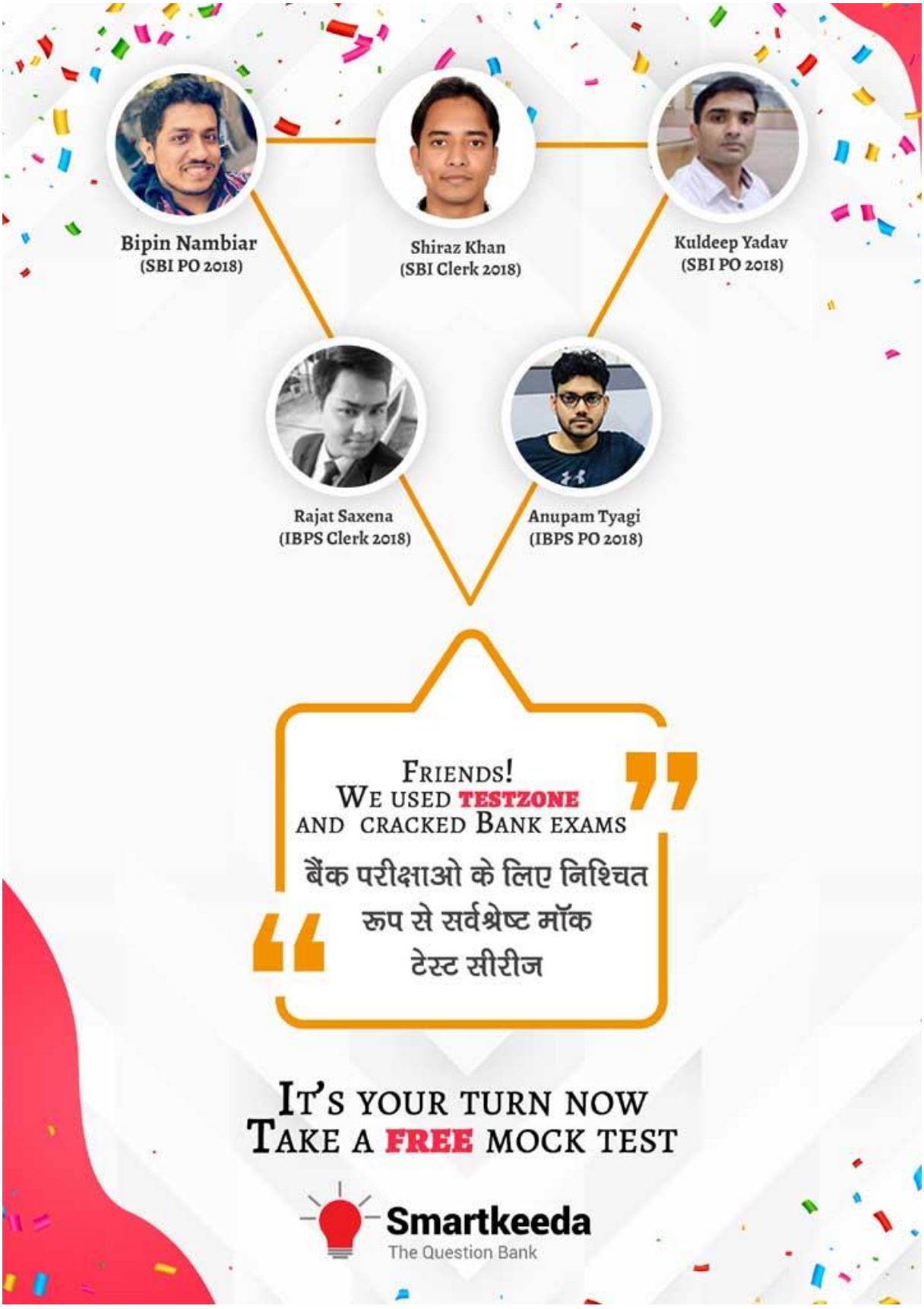
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The Question Bank

DI Info Chart Questions for SBI Clerk Mains, IBPS Clerk Mains, RBI Assistant Mains, LIC AAO, SBI PO Pre, IBPS PO Pre and RRB Scale I Pre Exams.

DI Info Chart No 28

Directions: Study the following information carefully and answer the questions given beside.

Bhairav has a bag full of [A] mohurs of three types: Gold, Silver and Bronze. The ratio of number of gold mohurs to the bronze mohurs in the bag is 3 : 2 respectively, and the probability of drawing a bronze mohur from the bag is 3/10.

The ratio of price of a Gold, Silver and Bronze mohur is 15 : 12 : 10, respectively. Total amount obtained by selling all the mohurs is Rs. 5100. Note: price of each mohur is in whole number and total number of mohurs in the bag is less than 45 but more than 30.

With amount earned by selling Gold mohurs, Bhairav bought a 'videogame' at a discount of 20% which was marked 50% above its cost price of Rs. [B].

The amount earned by selling Bronze mohurs is distributed among his three sons in the ratio of [C: D: E] such that E = D + 1 and D = C + 1, the amount received by son getting largest sum is Rs. 200 more than amount received by son getting smallest sum.

Bhairav is fond of drinking mixture of Honey, lemon and water in the ratio of 1 : 2 : 7 respectively and he drinks 450 ml of that mixture every day.

1. What is the cost price of the 'videogame' i.e. [B]?

A. Rs. 1750 B. Rs. 2000 C. Rs. 2250 D. Rs. 2500 E. Rs. 2750

2. Total worth of all the gold mohurs (in Rs.) is what percentage more or less than the total worth of all silver mohurs (in Rs.)?

A. 225% B. 200% C. 175% D. 150% E. 125%

3. What is the value of [C + D + E]?

A. 6 B. 8 C. 10 D. 12 E. 15

4. Find the amount of every day's lemon intake of Bhairav (in grams).

A. 60 grams B. 75 grams C. 90 grams D. 105 grams E. None of these

5. What is the average of number of Gold mohurs and number of Bronze mohurs?

A. 12 B.15 C. 18 D. 20 E. 24

Correct Answers:

1	2	3	4	5
C	E	D	C	B

Explanations :

1. Let, number of gold mohurs and the bronze mohurs in the bag be 3x and 2x, respectively

As, 45 > A > 30, and probability of drawing a bronze mohur from the bag is 3/10

Therefore, total number of mohurs in the bag = A = 40

So, number of bronze mohurs = $\frac{3}{10} \times 40 = 12$

So, number of gold mohurs in the bag = $\frac{12}{2} \times 3 = 18$

So, number of silver mohurs in the bag = 40 – (12 + 18)=10

Total values of all the silver mohurs in the bag

$= \frac{288}{0.12 \times 2}$ = Rs. 1200

Let, price of Gold, Silver and Bronze mohur is 15x, 12x and 10x respectively

$15x \times 18 + 12x \times 10 + 10x \times 12 = 5100$

$270x + 120x + 120x = 5100$

$510x = 5100$

$x = 10$

Therefore, price of each Gold, Silver and Bronze mohur is Rs. 150, Rs. 120, and Rs. 100 respectively

Amount earned by selling gold mohurs = 150 × 18 = Rs.2700

Therefore, cost price of videogame B

$= \frac{2700}{1.5 \times 0.8}$ = Rs. 2250

Hence, option C is correct.

2. Let, number of gold mohurs and the bronze mohurs in the bag be 3x and 2x, respectively

As, 45 > A > 30, and probability of drawing a bronze mohur from the bag is 3/10

Therefore, total number of mohurs in the bag = A = 40

So, number of bronze mohurs = $\frac{3}{10} \times 40 = 12$

So, number of gold mohurs in the bag = $\frac{12}{2} \times 3 = 18$

So, number of silver mohurs in the bag = 40 – (12 + 18) = 10

Total values of all the silver mohurs in the bag

x= $\frac{288}{0.12 \times 2}$ = Rs.1200

Let, price of Gold, Silver and Bronze mohur is 15x, 12x and 10x respectively

15x × 18 + 12x × 10 + 10x × 12 = 5100

270x + 120x + 120x = 5100

510x = 5100

x = 10

Therefore, price of each Gold, Silver and Bronze mohur is Rs. 150, Rs. 120, and Rs. 100 respectively

Total worth of all the gold mohurs = 150 × 18 = Rs. 2700
Total worth of all the silver mohurs = 120 × 10 = Rs. 1200

Therefore, reqd. % = $\frac{2700 - 1200}{1200} \times 100 = 125\%$

Hence, option E is correct.

3. Let, number of gold mohurs and the bronze mohurs in the bag be 3x and 2x, respectively

As, 45 > A > 30, and probability of drawing a bronze mohur from the bag is 3/10

Therefore, total number of mohurs in the bag = A = 40

So, number of bronze mohurs = $\frac{3}{10} \times 40 = 12$

So, number of gold mohurs in the bag = $\frac{12}{2} \times 3 = 18$

So, number of silver mohurs in the bag = 40 – (12 + 18) = 10

Total values of all the silver mohurs in the bag

$= \frac{288}{0.12 \times 2}$ = Rs.1200

Let, price of Gold, Silver and Bronze mohur is 15x, 12x and 10x respectively

$15x \times 18 + 12x \times 10 + 10x \times 12 = 5100$
$270x + 120x + 120x = 5100$
$510x = 5100$

$x = 10$

Therefore, price of each Gold, Silver and Bronze mohur is Rs. 150, Rs. 120, and Rs. 100 respectively

Total worth of all the bronze mohurs = 100 × 12 = Rs. 1200

$D = C + 1$

$E = D + 1 = C + 2$

According to the question,

$\frac{E - C}{C + D + E} = \frac{200}{1200}$

$\frac{2}{C + D + E} = \frac{1}{6}$

$\frac{1}{C + D + E} = \frac{1}{12}$

Therefore, C + D + E = 12
Hence, option D is correct.,

4. Every day's lemon intake of Bhairav (in grams)

$= \frac{2}{1 + 2 + 7} \times 450 = 90$ grams

Hence, option C is correct.

5. Let, number of gold mohurs and the bronze mohurs in the bag be 3x and 2x, respectively

As, 45 > A > 30, and probability of drawing a bronze mohur from the bag is 3/10

Therefore, total number of mohurs in the bag = A = 40

So, number of bronze mohurs = $\frac{3}{10} \times 40 = 12$

So, number of gold mohurs in the bag = $\frac{12}{2} \times 3 = 18$

Therefore, reqd. average = $\frac{18 + 12}{2} = 15$

Hence, option B is correct.