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Date Interpretation Info Chart Questions Quiz for IBPS PO Pre, SBI PO Pre, IBPS Clerk Mains, RRB Scale I Pre, IBPS SO Pre, Canara Bank, Syndicate Bank and SBI Clerk Mains Exams.

DI Info Chart Quiz 19

Directions: Study the given information carefully to answer the questions.

Chaman and Baman together bought 4 acres of agriculture land in the ratio of 5: 3 in the year 2015 and started cultivating wheat in the year 2016. In that year, Chaman being an elder brother gave 50 tons of wheat which was 8% of his total production of that year to Baman, now Baman's total wheat quantity was increased by 25%. In the year 2017, Baman's total wheat production was doubled over the previous year so he returned 10% of his total wheat produced quantity to Chaman now, after receiving from Baman, Chaman's total wheat quantity was increased by 200/3 %. In the year 2018, both of them had produced an equal quantity of wheat and Chaman's production of wheat was increased by 25% over the total quantity of wheat he had produced in the previous year.

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1. What is the total quantity (in ton) of wheat produced by Chaman in the year 2018?

A. 100 B. 120 C. 80 D. 75 E. None of these

2. What was the percentage decrease in Baman's production of wheat in the year 2018 over the previous year?

A. 87.5% B. 42.5% C. 56.5% D. 81.50% E. None of these

3. What quantity of total wheat did Baman produce in the year 2017 and 2018 together?

A. 525 tons B. 475 tons C. 550 tons D. 575 tons E. None of these

4. What is the difference between the total quantity of wheat produced by Chaman in the given three periods to that by Baman in the given three periods?

A. 95 tons B. 125 tons C. 85 tons D. 75 tons E. None of these

5. In the year 2016, what was the ratio of average production of wheat per acre for Chaman to the average production of wheat per acre for Baman?

A. 25 : 8 B. 5 : 2 C. 15 : 8 D. 3 : 2 E. None of these

Correct Answers:

1	2	3	4	5
D	E	B	C	C

COMMON EXPLANATION :

In 2016, 8% of Chaman's total production = 50 tons

Total production = $\frac{50 \times 100}{8}$ = 625 tons

Let the Baman's total production = x tons then 25% of x= 50

$x = \frac{50 \times 100}{25}$

x = 200 tons

In 2017,

Baman's total production = 2 × 200 = 400 tons

10% of 400 = 40 tons he returned to Chaman

Let Chaman's total production = y then (200/3)% of y = 40

$\frac{2y}{3} = 40$

y = 60 tons = Chaman's total production of wheat in 2017

In 2018, Chaman's production of wheat = 125% of 60 = 75 tons = the total production of wheat for Baman in the year 2018

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Explanations:

1. Following the common explanation, we get

Total quantity (in ton) of wheat produced by Chaman in the year 2018 = 75 tons

Hence, option D is correct.

2. Following common explanation, we get

Total quantity (in ton) of wheat produced by Baman in the year 2018 = 75 tons

Total quantity (in ton) of wheat produced by Baman in the year 2017 = 400 tons

The reqd. % increase $= \frac{(400 - 75) \times 100}{400} = \frac{325}{4} = 81.25\%$

Hence, option E is correct.

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3. Following common explanation, we get

Quantity of total wheat Baman produced in the year 2017 and 2018 together = 400 + 75 = 475 tons

Hence, option B is correct.

4. Following common explanation, we get

The total quantity of wheat produced by Chaman in the given three periods = 625 + 60 + 75 = 760 tons

The total quantity of wheat produced by Baman in the given three periods = 200 + 400 + 75 = 675

The required difference = 760 – 675 = 85 tons

Hence, option C is correct.

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5. Following common explanation, we get

Chaman's land = $\frac{4 \times 5}{8}$ = 2.5 acres

Baman's land = $\frac{4 \times 3}{8}$ = 1.5 acres

Chaman's production of wheat = 625 tons

Baman's production of wheat = 200 tons

The reqd. ratio = $\frac{625}{2.5} : \frac{200}{1.5}$

25 × 15 : 8 × 25 = 15 : 8

Hence, option C is correct.

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