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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.

- 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

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

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

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

$$x = 200 \text{ tons}$$

In 2017,

$$\text{Baman's total production} = 2 \times 200 = 400 \text{ tons}$$

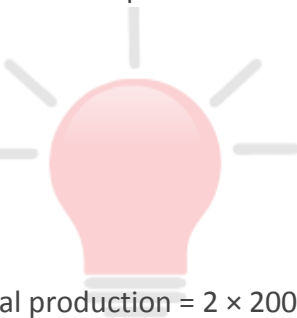
10% of 400 = 40 tons he returned to Chaman

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

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

Hence, option E is correct.

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

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

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

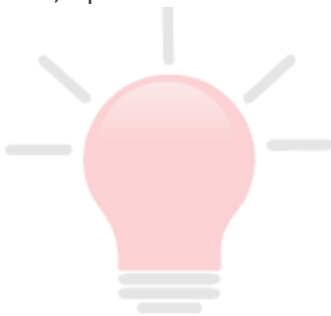
Chaman's production of wheat = 625 tons

Baman's production of wheat = 200 tons

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

$$25 \times 15 : 8 \times 25 = 15 : 8$$

Hence, option C is correct.



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