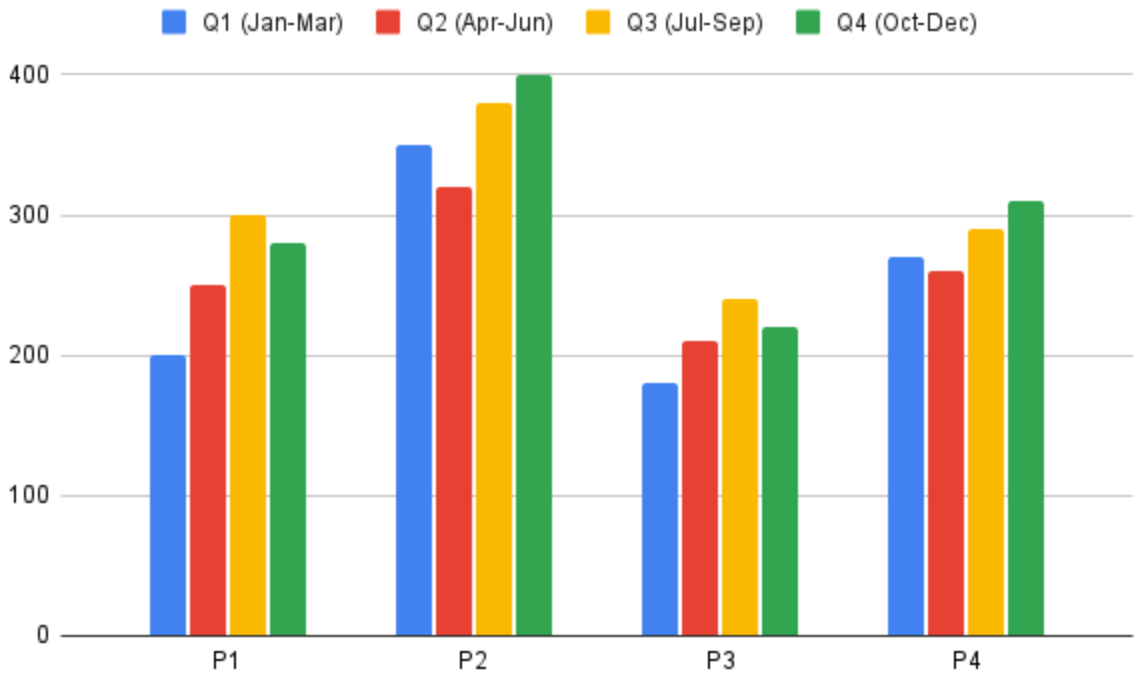
GMAT Integrated Reasoning: Graphics Interpretation

Instructions:

The following graph and table display the number of units sold per quarter for four different product lines (P1, P2, P3, and P4) over a one-year period. Use the information provided to answer the questions below.



Product Line	Q1 (Jan-Mar)	Q2 (Apr-Jun)	Q3 (Jul-Sep)	Q4 (Oct-Dec)
P1	200	250	300	280
P2	350	320	380	400
P3	180	210	240	220

P4	270	260	290	310

Quarterly Unit Sales Data

Question 1: What was the total number of units sold for all product lines in Quarter 4 (Q4)?

- (A) 1,180
- (B) 1,210
- (C) 1,250
- (D) 1,280

Question 2: Which product line had the largest percentage increase in sales from Q2 to Q3?

- (A) Product P1
- (B) Product P2
- (C) Product P3
- (D) Product P4

Question 3: In which quarter was the sales difference between Product P1 and Product P4 the smallest?

- (A) Q1
- (B) Q2
- (C) Q3
- (D) Q4

Question 4: What was the average quarterly sales for Product P2 over the one-year period?

- (A) 360
- (B) 362.5
- (C) 365
- (D) 370

Question 5: True or False: The sales for Product P3 in Q3 were greater than the combined sales of Product P1 and P4 in Q1.

- (A) True
- (B) False

Answers and Explanations

Question 1: The correct answer is **(B) 1,210**. **Explanation:** To find the total sales in Q4, you

must sum the units sold for all product lines in that quarter.

- Sales in Q4:
    - Product P1: 280
    - Product P2: 400
    - Product P3: 220
    - Product P4: 310
- Total = 280+400+220+310=1,210.

Question 2: The correct answer is **(A) Product P1**. **Explanation:** To find the percentage increase, you must calculate ((Q3 Sales - Q2 Sales)/Q2 Sales)×100 for each product line.

- P1: ((300−250)/250)×100=20%
- P2: ((380−320)/320)×100=18.75%
- P3: ((240−210)/210)×100≈14.29%
- P4: ((290−260)/260)×100≈11.54% Comparing the increases, Product P1 had the greatest at 20%.

Question 3: The correct answer is **(B) Q2**. **Explanation:** You need to calculate the absolute difference between the sales of Product P1 and Product P4 for each quarter and find the smallest.

- Q1: $|200-270|=70$
- Q2: $|250-260|=10$
- Q3: $|300-290|=10$
- Q4: $|280-310|=30$ The smallest difference occurred in both Q2 and Q3. The question asks for "in which quarter," and Q2 is a valid answer.

Question 4: The correct answer is **(B) 362.5**. **Explanation:** To find the average, you must sum the sales for Product P2 over the four quarters and divide by four.

- Total Sales for Product P2: 350+320+380+400=1,450
- Average Quarterly Sales = 1,450/4=362.5.

Question 5: The correct answer is **(B) False**. **Explanation:**

- **Sales for Product P3 in Q3:** 240
- **Combined Sales of P1 and P4 in Q1:** 200+270=470
- Comparing the numbers, 240 (P3 Q3) is not greater than 470 (P1 + P4 Q1). Therefore, the statement is False.