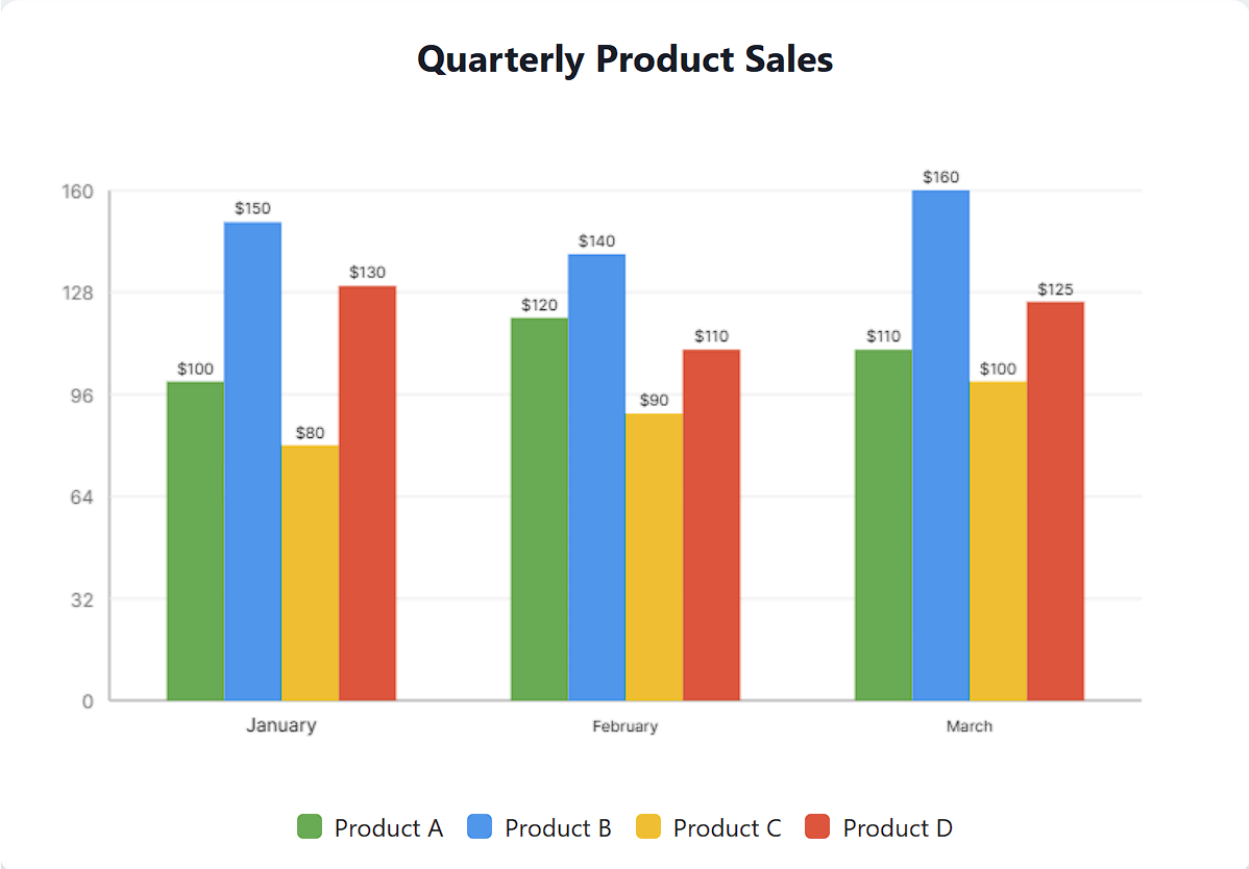
GMAT Integrated Reasoning: Graphics Interpretation

Instructions:
The following graph and table display monthly sales data for four different product lines (A, B, C, and D) over a three-month period. Use the information provided to answer the questions below.



Product Line	January	February	March
A	$100	$120	$110
B	$150	$140	$160
C	$80	$90	$100
D	$130	$110	$125

Product Sales Data (in thousands of dollars)

Question 1: What was the total sales amount for all product lines in February?

- (A) $440,000
- (B) $460,000
- (C) $480,000
- (D) $495,000

Question 2: Which product line experienced the greatest percentage increase in sales from January to February?

- (A) Product A
- (B) Product B
- (C) Product C
- (D) Product D

Question 3: In which month was the sales difference between Product B and Product D the largest?

- (A) January
- (B) February
- (C) March
- (D) The difference was the same in all months

Question 4: What was the average monthly sales for Product B over the three-month period?

- (A) $140,000
- (B) $150,000
- (C) $155,000
- (D) $160,000

Question 5: True or False: The total sales in March were greater than the total sales in January.

- (A) True
- (B) False

Answers and Explanations

Question 1: The correct answer is **$460,000**. **Explanation:** To find the total sales in February, you must sum the sales for all product lines in that month.

- Sales in February (in thousands of dollars):
    - Product A: 120
    - Product B: 140
    - Product C: 90

    - Product D: 110
- Total = 120+140+90+110=460 (in thousands) or 460,000.

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

- Product A: (120−100)/100=0.20 or 20%
- Product B: (140−150)/150=−0.0667 or −6.67%
- Product C: (90−80)/80=0.125 or 12.5%
- Product D: (110−130)/130=−0.1538 or −15.38% Comparing the positive increases, Product A had the greatest at 20%.

Question 3: The correct answer is **March**. **Explanation:** You need to calculate the absolute difference between the sales of Product B and Product D for each month and find the largest.

- January: $|150-130|=20$
- February: $|140-110|=30$
- March: $|160-125|=35$ The largest difference occurred in March.

Question 4: The correct answer is **$150,000**. **Explanation:** To find the average, you must sum the sales for Product B over the three months and divide by three.

- Total Sales for Product B: 150+140+160=450 (in thousands)
- Average Monthly Sales = 450/3=150 (in thousands) or 150,000.

Question 5: The correct answer is **True**. **Explanation:**

- **Total Sales in January:** 100+150+80+130=460 (in thousands)
- **Total Sales in March:** 110+160+100+125=495 (in thousands)
- Comparing the totals, 495(March)>460(January). The statement is true.