

Build Tasks — Answers



1. Describe the trend and seasonality.
How many quarters make one cycle?

Solution

Increasing trend; Q4
peaks
each year. Cycle = 4
quarters



2. Calculate the percentage increase in
Q4 sales from Year 1 to Year 2.

Solution

45 → 60:

$$15/45 \times 100 \approx 33.3\%$$



3. Calculate the percentage increase in
Q1 sales from Year 1 to Year 2.

Solution

20 → 28:

$$8/20 \times 100 = 40\%$$



4. Describe the trend of Product A and
the trend of Product B separately.

Solution

A: steadily increasing.

B: steadily decreasing



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5. In which month are Product A and Product B's sales closest together, and what is the difference in that month?



Solution

April: $|20 - 22| = 2$

6. By how much did Product A's sales increase from January to June?



Solution

$30 - 10 = 20$ units

7. The dashed line shows the trend continuing. Using it, what value is predicted for 2023?



Solution

Pattern is $+5/\text{yr}$:
 $2023 = 65$

8. Explain one reason why a trend-based prediction like the one in Q7 might turn out to be wrong.



Solution

An unexpected future event could break it