

Homework #3 - Solving Word Problems

Date _____ 5T _____

Write your LET statement and your equation. Solve it, then answer the question with a concluding statement.

- 1) The sum of two numbers is 50. The first number is 4 times the second number. What are the numbers?
- 2) The sum of two numbers is 172. The first is 8 less than 5 times the second. What are the numbers?
- 3) The width of a rectangle is 12 cm less than the length. If the perimeter is 156 cm, find the dimensions of the rectangle. (Draw the rectangle).
- 4) A triangular sail has perimeter of 25 m. Side a is 2 m shorter than twice side b , and side c is 3 metres longer than side b . Find the dimensions of the triangle. (Draw the triangle).

5) The number of frost-free days per year in Quebec City is 18 less than the number in Halifax. The total number in both cities is 292. How many frost-free days in each city?

6) There are 2.25 times as many days of fog per year in Vancouver as in Winnipeg. The total number of foggy days in both cities is 65. How many foggy days does each city have?

7) An orange has 20 fewer calories than a banana. If 7 bananas has the same amount of calories as 9 oranges, how many calories in each fruit?

8) A garden is 20 m by 25 m. It is surrounded by a walkway. The outside perimeter of the walkway is 114 m. What is the width of your walkway? (Similar to #7 of notes).

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Write your LET statement and your equation. Solve it, then answer the question with a concluding statement.

- 1) The sum of two numbers is 50. The first number is 4 times the second number. What are the numbers?

Numbers are 40 and 10.

- 2) The sum of two numbers is 172. The first is 8 less than 5 times the second. What are the numbers?

Numbers are 30 and 142.

- 3) The width of a rectangle is 12 cm less than the length. If the perimeter is 156 cm, find the dimensions of the rectangle. (Draw the rectangle).

Length is 45 cm, width is 33 cm.

- 4) A triangular sail has perimeter of 25 m. Side a is 2 m shorter than twice side b , and side c is 3 metres longer than side b . Find the dimensions of the triangle. (Draw the triangle).

Side a is 10 m, Side b is 6 m, Side c is 9 m.

- 5) The number of frost-free days per year in Quebec City is 18 less than the number in Halifax. The total number in both cities is 292. How many frost-free days in each city?

Halifax has 155. Quebec has 137.

- 6) There are 2.25 times as many days of fog per year in Vancouver as in Winnipeg. The total number of foggy days in both cities is 65. How many foggy days does each city have?

Winnipeg has 20. Vancouver has 45.

- 7) An orange has 20 fewer calories than a banana. If 7 bananas has the same amount of calories as 9 oranges, how many calories in each fruit?

Bananas have 90 cal. Oranges have 70 cal.

- 8) A garden is 20 m by 25 m. It is surrounded by a walkway. The outside perimeter of the walkway is 114 m. What is the width of your walkway? (Similar to #7 of notes).

The walkway is 3m wide.