MODULE 2: APPLICATIONS

"CLIMB MOUNTAINS NOT SO THE WORLD CAN SEE YOU,

BUT SO THAT YOU CAN SEE THE WORLD."

2.7 PROBLEM SOLVING

Perimeter: The _____ of all the sides of a shape.

Units of perimeter: _____

    Perimeter of a Rectangle: _____

Ex. Find the perimeter of the rectangle with the following dimensions: length = 21 cm, width = 12 cm

Ex. Find the length of the rectangle with the following dimensions: perimeter = 78 m, width = 11 m

Area: Amount of _____ in a 2-dimensional object.

Units of area: _____

    Area of a Square: _____

    Area of a Rectangle: _____

    Area of a Circle: _____

    Area of a Triangle: _____

Ex. Find the area of the square with the following dimensions: side = 10 m

Ex. Driveway pavers are 4 in. x 6 in. A driveway is 7488 square inches, how many pavers are needed?

Ex. Find the area of the triangle with the following dimensions: height = 2 km, base = 6 km

Translating Word Problems

Words associated with Addition:

_____

Words associated with Subtraction:

_____

Words associated with Multiplication:

_____

Words associated with Division:

_____

Words associated with Equals:

_____

Ex. Rectangle is 25 ft. wide. The length is 5 ft. more than twice the width. What is the area?

Ex. Rectangle is twice as long as it is wide, and its perimeter is 36 meters. Find the width.

Ex. Length of a rectangle is 8 feet. longer than its width. The perimeter is 184 feet. Find the width.

Simple Interest: _____

I: _____ P: _____

r: _____ t: _____

Ex. Investment of $12000. In one year there was $816 of interest. What was the interest rate?

Ex. Borrow $3000 at 3.5% interest rate. You pay $735 in interest. How many years was the loan for?

Percentage: The word "of" means to _____.

Ex. 40% of 230 is what?

Ex. At a restaurant, the bill is $25. You decide to leave a 15% tip. How much did you leave?

Ex. What % of 280 is 78.4?

Percent of Change: _____ × 100

Ex. If 11 is increased to 17, the increase is what percent of the original number?

Ex. Paid $145 for an item originally priced at $480. What percent of the original price did you pay?

Homework Checklist

☐ *Module 2: Applications*