Materials to Support Grade 10 Mathematics Class

MFM2P Measurement Practice Test

Name: _____

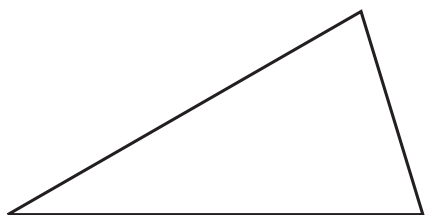By the end of the course, students will: use the imperial and metric systems of measurement.

Category	Questions	R	1	2	3	4
KU	1					
KU	2					
KU	3					
A	4					
A	5					
A	6					
C	best					

Part 1: Knowledge

Answer each question to the best of your ability. Show enough work so that I know what you're doing.

1. Convert each of the following. Show your calculations.

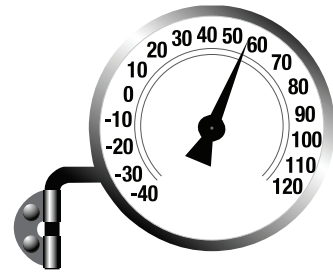   a) 75 inches to centimeters   b) 13 kilograms to pounds

2. Carefully measure the triangle and calculate its perimeter and area. Show enough work so that I know what you're doing.

Source: Created by Julia Bilenkis. Adapted with permission.

3. The picture shows an outdoor thermometer.

a) Are the numbers around the circumference of the thermometer in Celsius or Fahrenheit degrees? Explain how you know.

b) Convert the temperature to the <u>other</u> unit.

Part 2: Application

Product Specifications Corr Grain Bin		
Weight	1958.1 kg	4300 lb.
Diameter	6.37 m	20' 10 ½"

4. Examine the product specifications above.

a) The weight conversion is a bit off. Verify this and correct it.

b) Check the diameter conversion. How good is it?

5. An ice hockey arena has

• 22 km of steel refrigeration pipe for the rink

• 17 miles of yellow lines in the parking lot

• 11,900 feet of roof truss

Compare the three measurements. Which is the largest? Be sure to show your reasoning and calculations.

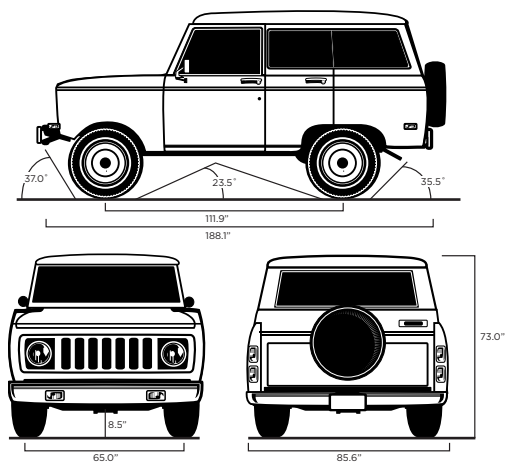*Source: Created by Julia Bilenkis. Adapted with permission.*

6. You have a car shelter in your yard. Will your new SUV fit in it? Be sure to support your answer with calculations and reasoning.

Dimensions of the Shelter

Width: 224 cm
Length: 369 cm
Height: 190 cm

Source: Created by Julia Bilenkis. Adapted with permission.