Lesson 1.1

Name: _____

SI Measurement

Show You Know

Ex. 1	Ex. 2	Ex. 3
Estimate the height of the marker tray on the whiteboard using an appropriate referent. Then, measure this height.	Convert each measurement to a more appropriate SI unit. Justify your choice. a) A tube of toothpaste is 205 mm long b) The circumference of a highlighter measures 0.06 m. c) You travel 590 000 m from Regina to Winnipeg. d) The top of a door is 2110 mm high.	Suppose the inner rim of a Red River cart wheel has a circumference of 7.1 m. Each spoke is 1 m long. What is the diameter of the center circular hub of the wheel?

Practice

1. Consider each measurement. State whether it is reported in the most appropriate unit. If it is not, explain why and convert to a more appropriate unit.

   a. The length of the Iditarod Trail sled dog race is 1 850 750 m.

   b. The wingspan of a sycamore moth is approximately 0.042 m.

   c. The circumference of a tire of a mountain bike is 207 cm.

2. The front wheel of a motorcycle has a radius of 20.32 cm. On a trip, the wheel rotated 25 000 times. What was the distance of the trip in kilometers?

Name: _____

3.

    a. A grass flea can leap a distance 350 times its length in a single jump. What is the length of a grass flea that covered a distance of 70 m in 500 jumps? Express your answer in an appropriate unit.

    b. Justify your choice of unit in part a).

4. The ratio of length to width of an Edmonton Journal newspaper is 15 to 7. A diagonal drawn on the page has a length of 0.0662 dam. What are the dimensions of the page in centimeters?