

# Measurement: Assignment 1

Answer the questions below on a separate piece of paper. Show **all of your work** to receive full marks. Remember your units!

- Convert:
  - 12 yd. to inches
  - 21 ft. to yards
  - 79 in. to yards, feet, and inches
  - 12,623 ft. to miles, yards, feet, and inches
  - 26.2 mi. to kilometres
  - 98,234 mm. to feet and inches
- A truck driver wants to park her 3.25-m high truck in a storage shed that is 11 ft. 6 in. high. Will the truck fit in the shed?
- Tammy drove 85 km to a camp site. Todd drove 52 mi. to meet Tammy at the camp site. Who drove farther?
- Sue wants to fence her backyard. Her backyard is a perfect square and is 16 yards wide. What is the perimeter of the fence she will require if the width of her house is 7 yards?
- A dog trainer advises that, when walking a dog on a city street, the walker should allow the dog 42 in. of leash. Greg bought a retractable leash that extends 5.5 yd. Greg follows the trainer's advice. What length of the lease, in inches, is not used?
- To qualify for the school volleyball try-outs, Rick needs to be able to jump and touch a line on a wall that is 8 ft. 2 in. off the ground. In his workouts, Rick jumped 243 cm. Will he qualify for the try-outs?
- The cross-country running team is preparing for a meet. Katy ran 18 laps around the 400-yd track and Ben ran 7.5 km. Who ran farther?
- Describe how you would estimate the distance from the school to the supermarket. Be sure you list the referents and units you would use if measuring in both imperial and SI systems.
- Describe one method to measure the circumference of a marker pen. Identify the unit and measuring device you would use.
- Two students measured a set for a school play. One student said it was 3 yd. 2ft. wide. The other student said it was 132 in. wide. Are the students' measurements the same?
- Nina ran an 8-km race for charity. What is this distance in miles and yards?
- A mural is 3 yd. long and 2 yd. wide. It has a border that is made with sections that are 48 in. long. How many sections were needed to make the border?