Chapter 2 Test

For #1 to #6, select the best answer.

1. Which length is between $\frac{1}{8}$ in. and $\frac{3}{8}$ in.?

A $\frac{1}{4}$ in.   **B** $\frac{3}{7}$ in.

C $\frac{1}{2}$ in.   **D** $\frac{2}{3}$ in.

2. Which length is longer than 3 cm?
   A 0.025 m   **B** 2.5 cm
   C 25 mm   **D** 2500 mm

3. Which list is in order from shortest to longest length?
   A 1 inch, 1 centimetre, 1 foot, 1 metre
   B 1 metre, 1 yard, 1 mile, 1 kilometre
   C 1 millimetre, 1 inch, 1 centimetre, 1 foot
   D 1 yard, 1 metre, 1 kilometre, 1 mile

4. Which SI length is equal to 33"?
   A 0.84 m   **B** 13 cm
   C 33 mm   **D** 100 cm

5. Which SI length is equal to 0.5 m?
   A 0.5 cm   **B** 5 cm
   C 50 cm   **D** 500 cm

6. Which pair of measures is equivalent?
   A 1 cm and 2 in.
   B 1 in. and 2 cm
   C 5 km and 8 mi
   D 8 mi and 10 km

7. Convert each length measurement to the unit indicated.
   a) The length of a suspension bridge is 50 m. (feet)
   b) The *Titanic* sank 350 km from the Johnson Geo Centre. (miles)

8. Kelly is climbing down a cliff. Estimate the height of the cliff if Kelly is 6 ft tall. Explain how you determined your estimate.


9. A valve in a pulp mill is 3 ft 8 in. long. The controller is halfway along the length of the valve. What is the distance of the controller from each end of the valve?


controller

3 ft 8 in.

Name: _____   Date: _____

10. A school is planning to build a new running track. The diameter of each end of the track is 54 m.

   **a)** What is the perimeter of each end of the track? Round to the nearest tenth of a metre.

   b) Each side of the track is 115.2 m long. What is the total perimeter of the track?

115.2 m

54 m
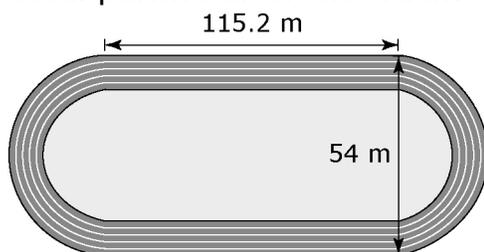
11. Determine the length + girth measurement of the gift box to the nearest tenth of a centimetre.

r = 4.2 cm

7.5 cm

g
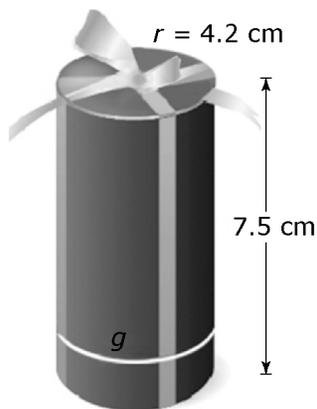
12. Janie wants to glue felt ribbon around the edge of the game board. She has 1 m of felt. Is this amount enough? Justify your answer.

r = 5 cm
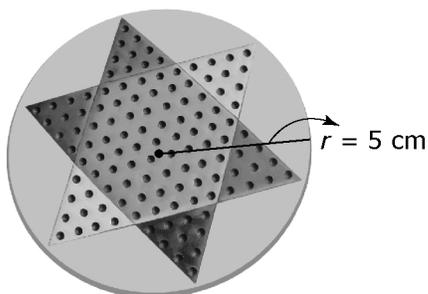
13. Joe is building a bookshelf that is 5 ft tall and 2 ft wide. He plans to use two equal-sized pieces of wood for the backing.

   a) If the two pieces are placed horizontally, what will be the length and width of each piece of wood?
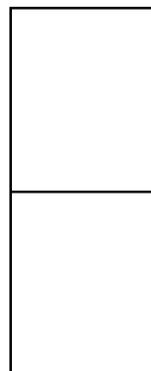
   b) If the two pieces are placed vertically, what will be the length and width of each piece of wood?