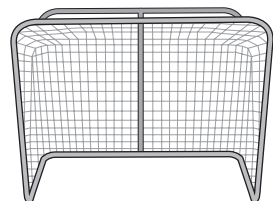
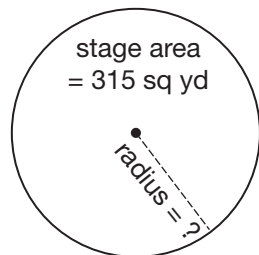
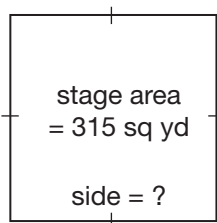
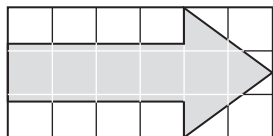


Mid-Chapter Review

You will need

- a ruler (imperial)



- Name a referent for 1 cm². e.g., area of your fingernail
 - Estimate the area of your calculator. e.g., about 20 cm²
 - Measure the length and width of your calculator, in inches. Calculate the area to the nearest square inch.
e.g., 2.5 in. x 4.75 in. = 11.875 sq in.
The area is about 12 sq in.
- Name a referent for 1 sq ft. e.g., area of a floor tile
 - Estimate the area of this arrow painted on a wall.
(1 square represents 1 sq ft.) e.g., about 8 sq ft
- Two theatre stages each have an area of about 315 sq yd.
 - About how long is a side of the square stage?
e.g., Area of a square = s²
315 sq yd = s², so s = √315, or about 17.7
The length of a side is about 17.7 yd.
 - About how long is the radius of the circular stage?
e.g., Area of a circle = π × r²
315 sq yd ÷ 3.14 = r², so r² = 315 ÷ 3.14, or 100
r = √100, or 10 The radius is about 10 yd.
- In 2006, the area of Kelowna was 211.69 km², and Chilliwack was 260.19 km². How much larger was Chilliwack? Express your answer in square miles, to the nearest tenth.
e.g., 260.19 - 211.69 = 48.5 Chilliwack was 48.5 km² larger.
1 km² ÷ 0.3861 sq mi, so
48.5 km² × 0.3861 sq mi/km² ÷ 18.7 sq mi
- Express the area of each opening, in square feet.
 - a lacrosse net, 6 ft by 6 ft 36 sq ft
 - a hockey net, 72 in. by 48 in. 24 sq ft
 - a soccer net, 8 yd by 8 ft 192 sq ft