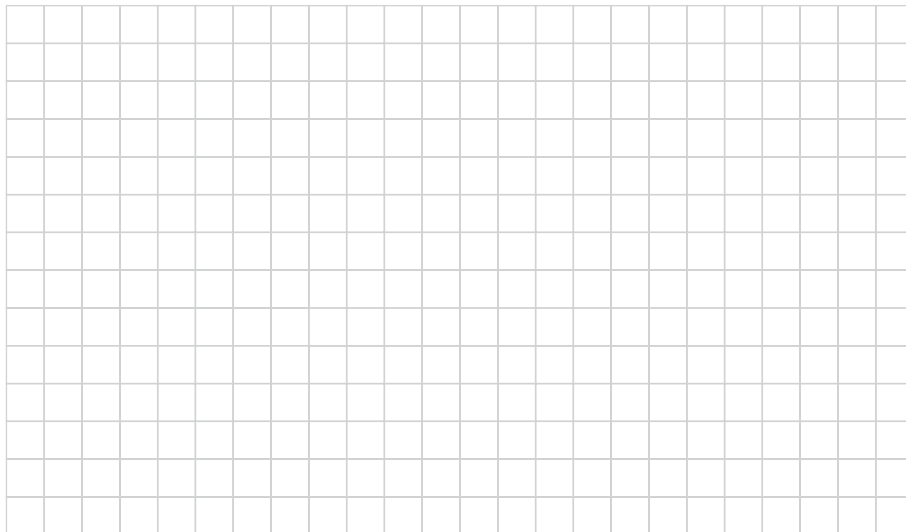# Chapter 7 Review

Chapter 7

1. a) The package of a model of a Lear jet says, "1 : 72." What does this mean?

_____

_____

b) Once built, the model of the jet is 15" long. What is the length of the jet?

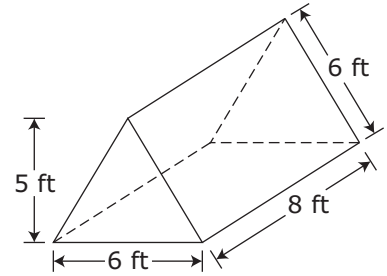**2. a)** Make a scale diagram of a wall measuring 3.6 m wide and 2.4 m high.

What is the scale of your diagram? _____

b) One litre of paint covers approximately 10 m². How many 1-L cans of paint do you need to put 2 coats of paint on the wall?

c) On the diagram of the wall above, sketch, to scale, the perimeter of an 80 cm by 60 cm piece of art.
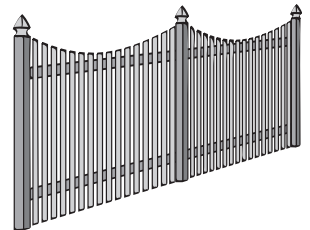
3. a) This tent has nylon walls and a nylon floor. Calculate the approximate surface area of the tent.

6 ft

5 ft

8 ft

6 ft

2-D Shape	Area	Number Needed	Total Area
		Total Surface Area	

b) Many campers hang a tarp above the tent to prevent rain from falling on it. What is the area of a circular tarp with a diameter of 10 ft?

c) The tarp has a sewn nylon edge around its perimeter to prevent fraying. What is the length of the material sewn around the edge of the tarp?
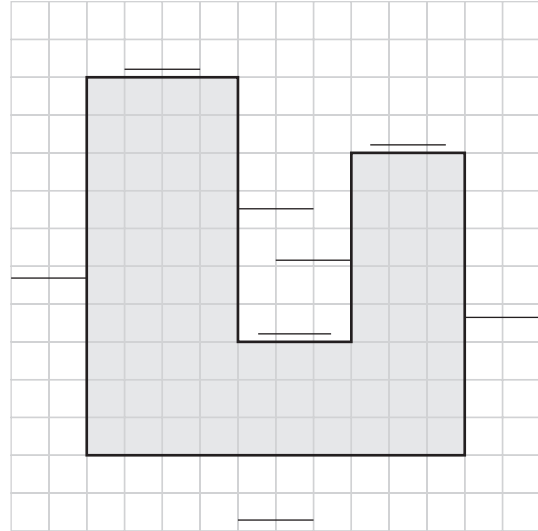
4. Bryan is replacing the vertical boards on two 8-ft sections of fence in his backyard. The boards he needs are $5\frac{3}{4}''$ wide. He will leave a $\frac{1}{4}''$ gap between the boards.

a) How many boards will Bryan need to buy?

b) Each board costs $3.19. What is the after-tax cost of the job?

5. The dark squares in the plan show an odd-shaped vegetable garden.

a) The scale of the diagram is 1 square : 2 feet. Fill in the blanks with the actual measurements of the garden.

b) On the diagram, divide the garden into a number of regular shapes.

c) Determine the area of the garden.

d) You want to add a layer of peat moss 3 inches deep. Determine the volume of peat moss needed.

e) A 3.8-ft^3 bag of peat moss costs $4.99. Calculate the total cost of the peat moss.