Chapter 7 Practice Test

1. a) The blueprints for an addition to a school are drawn with a scale of 1 : 48. Explain the meaning of "one to forty-eight."
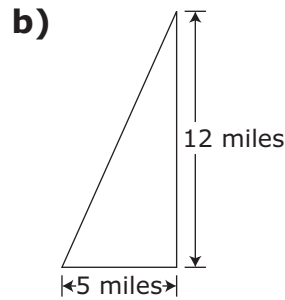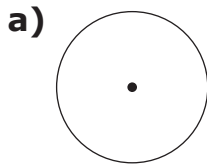
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b) A line 6 inches long on the drawing represents a wall of what length when the addition is built?

2. a) Make a scale diagram of a 110-yard long by 65-yard wide football field. Include the centre line. Put an end zone 10-yards long at each end of the field.
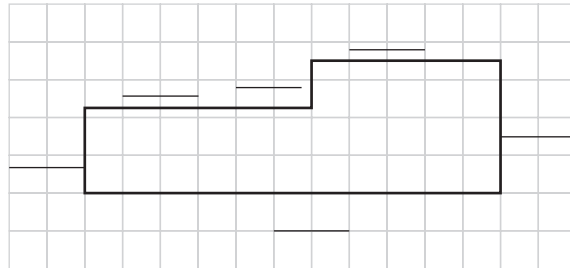

b) What is the total area of the field including the end zones?

c) The perimeter of the field needs the white border repainted. How many cans of white paint are needed if 1 can will make a line 35 yards long?

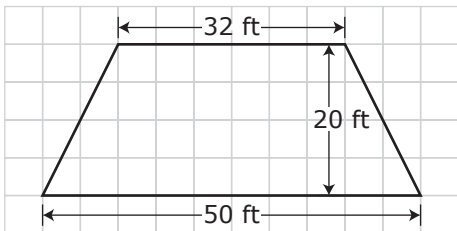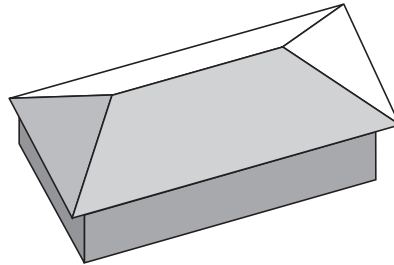**3.** Determine the area of each of the following shapes.

a)

b)

12 miles

|◄5 miles►|

4. A landscaping company is building a retaining wall to enclose a raised flower bed.

a) The drawing has a scale of 1 sq : 2 ft. Fill in the blanks with the measurements of the wall.

b) The wall will be 2 ft high. Calculate the volume of topsoil needed to fill the flower bed.

c) Convert your answer from part b) to cubic yards.

d) Marigolds will be planted around the perimeter of the flower bed at 6" intervals. How many marigolds will be needed?

5. Some shingles on 1 side of a house were damaged in a wind storm. A sketch of that side of the roof is below.

Trapezoid: top 32 ft, bottom 50 ft, height 20 ft.

a) On the diagram, divide the side of the roof into regular shapes.

b) Determine the area of the side of the roof.

c) One bundle of shingles covers 32 square feet. How many bundles do you need to cover the side of the roof?

d) Shingles come in different qualities. High quality shingles that are supposed to last 25 years cost $17.99 per bundle. Determine the before-tax cost of the shingles needed to cover the side of the roof.

e) What is the after-tax cost of the shingles?