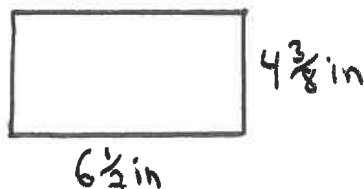


7-22B

1. A rectangular playground has a width of 560 feet and a length of 720 feet. Mary makes a scale model of the playground using a scale of 3 cm : 40 ft. What are the dimensions of Mary's scale model?
2. Andy is making scale drawings of rectangular rooms using a scale of 1 inch : 1 ½ feet. He wants to use paper that has a width of 8 ½ inches and a length of 11 inches for the drawings. Determine whether the scale drawings for each of these rooms will fit on the one piece of paper (write yes or no)
  - a 13 feet by 15 feet
  - b 16 feet by 18 feet
  - c 12 feet by 16 feet
  - d 14 feet by 17 feet
3. In a scale drawing, an object has a length of 45 centimeters. The actual length of the object is 157.5 feet. What is the scale of the drawing?
4. A map has a scale of 5 cm : 40 km. Which statements are true?
  - a. Two cities that are actually 160 km apart are 15 cm apart on the map.
  - b. Two cities that are actually 64 km apart are 8 cm apart on the map.
  - c. Two cities that are 12 cm apart on the map are actually 816 km apart.
  - d. Two cities that are 11 cm apart on the map are actually 480 km apart.
5. Mary makes a scale drawing of a floor to determine how many square feet of flooring she needs to buy. The scale of her drawing is 1 inch : 4 feet. What is the actual area of the floor?  
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6. The length of each square in the drawing represents ½ foot. If I use 2-inch by 2-inch tiles, how many X tiles will I need? \_\_\_\_\_ How many white tiles will I need? \_\_\_\_\_

