

Name: _____ Class: _____

1. The floor plan for a home has a scale of 0.25 inches = 1 foot. On the floor plan, one rectangular room measures 1.5 inches by 2.25 inches. What is the area of the actual rectangular room?

- A** 13.5 ft² **B** 15 ft² **C** 30 ft² **D** 54 ft²

2. A floor plan was drawn using the following scale: 1 *inch* = $2\frac{1}{2}$ *feet*. One wall of the house was represented by a line $6\frac{1}{2}$ inches long on the floor plan.

Which proportion could be used to find the length of the actual wall, in feet?

- A** $\frac{2}{5} = \frac{13}{2x}$ **B** $\frac{2}{5} = \frac{13x}{2}$ **C** $\frac{5}{2} = \frac{13}{2x}$ **D** $\frac{5}{2} = \frac{13x}{2}$

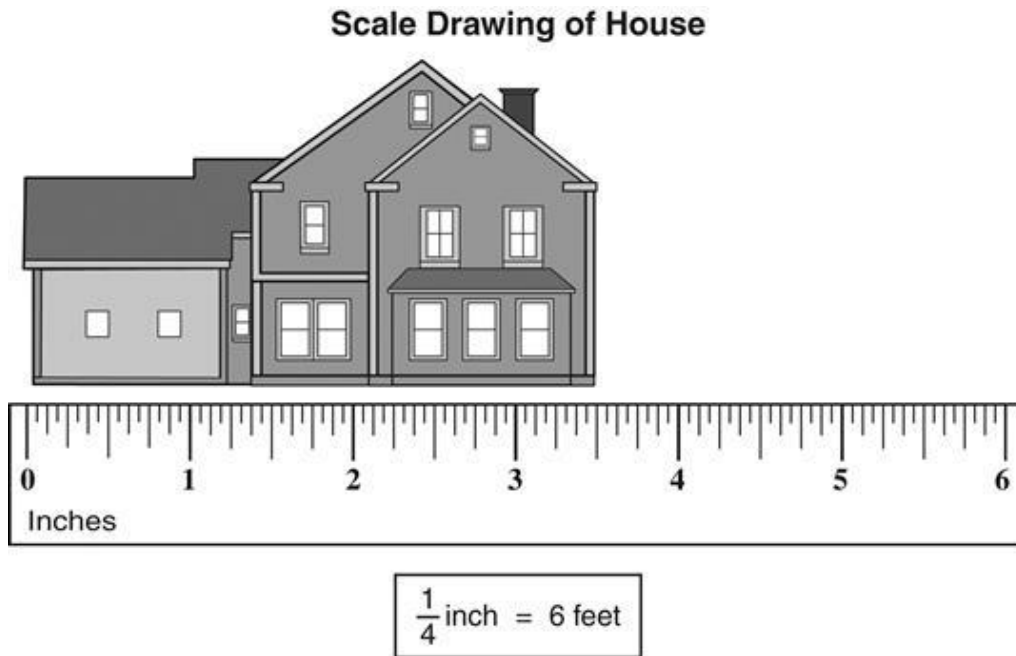
3. In drafting class, Manuel is drawing blueprints for a house. The scale is $\frac{1}{4}$ inch equals 1 foot. If a bedroom is to be 14 feet wide, how wide will the corresponding wall be in the drawing?

- A** $3\frac{1}{2}$ in. **B** 7 in. **C** $10\frac{1}{2}$ in. **D** 14 in.

4. An architect's scale drawing of a new school is 8.4 inches long. The scale used in the drawing is 2 inches = 8 feet. What is the actual length, in feet, of the school?

- A** 16.8 **B** 18.4 **C** 33.6 **D** 51.2

5. An architect made a scale drawing of a house.



The scale for the diagram is shown above. What is the actual length of the house represented by the drawing?

- A** 18.0 feet **B** 19.5 feet **C** 78.0 feet **D** 84.0 feet

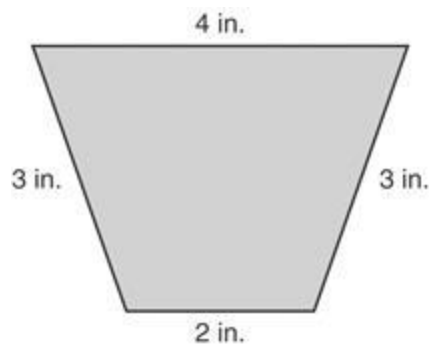
6. Mickey drew a scale drawing of the room in his middle school building using the scale 1 cm = 1.5 m. The office in his scale drawing measured 2.6 cm × 3.2 cm. What are the actual dimensions of the office?

- A** 1.7 m × 2.1 m **C** 3.9 m × 4.8 m
B 2.6 m × 3.2 m **D** 4.1 m × 4.7 m

7. A scale drawing of an apartment shows the living room length as 5.7 inches. The scale on the drawing is 1 in = 3 ft. What is the actual length, in feet, of the living room?

- A** 1.9 **B** 2.7 **C** 8.7 **D** 17.1

8. An architect is drawing a rectangular window on a set of house plans. The actual dimensions of the window are 14 feet wide by 6 feet high. Which dimensions should the architect use so that the window in the drawing is similar to the actual window?
- A 3.5 inches wide by 1.5 inches high
B 5.6 inches wide by 3.1 inches high
C 6.0 inches wide by 3.0 inches high
D 11.5 inches wide by 3.5 inches high
9. An architect drew a 1:15 scale model of a building. What statement most accurately describes what 1:15 represents in the drawing?
- A The drawing of the building is 15 inches long.
B The actual building has a wall that measures 15 feet long.
C 15 inches on the drawing represents 115 inches on the actual building.
D One-inch on the drawing represents 15 inches of the actual building.
10. This diagram shows the plan for a wooden deck. The scale dimensions of the deck are shown.



If the scale used in the diagram is $\frac{1}{4}$ Inch = 1 foot, what is the perimeter of the actual deck?

- A 3 feet B 12 feet C 36 feet D 48 feet