

Area of Rectangles and Square Worksheet

Name KEY

- 1) A room measures 13 feet by 9 ft. How many square feet of carpet will you need to cover the floor?

$$A = l \cdot w$$

$$A = 13 \times 9$$

$$A = \boxed{117 \text{ ft}^2}$$

- 2) How many square yards of carpet do you need to cover a hall that is 25 yards long and 1.25 yards wide?

$$A = l \cdot w$$

$$A = 25 \times 1.25$$

$$A = \boxed{31.25 \text{ yd}^2}$$

- 3) A square addition is being built. The length of one of the sides is 13.5 feet. What is the area of the floor?

$$A = s^2$$

$$A = (13.5)^2$$

$$A = \boxed{182.25 \text{ ft}^2}$$

- 4) A square has a side with a length of 5.75 cm. What is the area of the square

$$A = s^2$$

$$A = (5.75)^2$$

$$A = \boxed{33.0625 \text{ cm}^2}$$

- 5) A floor has an area of 188 sq. ft. and a length of 16 feet. How wide is the room?

$$A = l \cdot w$$

$$\frac{188 \text{ ft}^2}{16} = \frac{16 \times w}{16}$$

$$11.75 = w$$

$$\boxed{11.75 \text{ ft}}$$

- 6) The area of a room is 162 square feet. If the room is 12 feet long, how wide is it?

$$A = l \cdot w$$

$$\frac{162}{12} = \frac{12(w)}{12}$$

$$13.5 = w$$

$$\boxed{13.5 \text{ ft}}$$

- 7) The area of a square is 36 in^2 . What is the length of one side?

$$A = s^2$$

$$\sqrt{36 \text{ in}^2} = \sqrt{s^2}$$

$$\pm 6 \text{ in} = s$$

$$\boxed{6 \text{ inches}}$$

8. The area of a square room is 240.25 ft^2 . What is the length of one of the sides?

$$A = s^2$$

$$\pm \sqrt{240.25 \text{ ft}^2} = \sqrt{s^2}$$

$$\pm 15.5 = s$$

$$\boxed{15.5 \text{ ft}}$$