Area of Squares
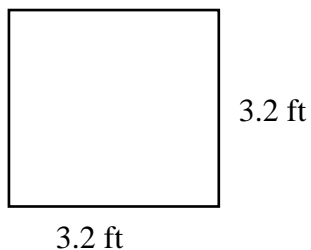
1. Determine the area of a square, to the nearest tenth of a square foot, whose side lengths measure 3.2 feet.

3.2 ft

3.2 ft

$A_{square} = s^2$
$= (3.2 \ ft)^2$
$= 10.2 \ ft^2$

The area of the square is approximately 10.2 ft².

2. A square has an area of 12 556 in². Find the side length, to the nearest tenth of an inch.

$$A_{square} = s^2$$
$$12 \ 556 \ in^2 = s^2$$
$$\sqrt{12 \ 556 \ in^2} = \sqrt{s^2}$$
$$112.1 \ in = s$$

The side length is approximately 112.1 inches.