

Squares and Square Roots

Instructions: Find the square root or square of each integer.

Developing

$\sqrt{121} =$

$\sqrt{169} =$

$\sqrt{100} =$

$\sqrt{225} =$

$\sqrt{49} =$

$\sqrt{144} =$

$\sqrt{4} =$

$\sqrt{1} =$

$\sqrt{196} =$

$\sqrt{9} =$

$\sqrt{25} =$

$\sqrt{36} =$

$\sqrt{256} =$

$\sqrt{81} =$

$\sqrt{64} =$

$\sqrt{16} =$

$8^2 =$

$6^2 =$

$11^2 =$

$14^2 =$

$3^2 =$

$12^2 =$

$13^2 =$

$7^2 =$

$1^2 =$

$10^2 =$

$2^2 =$

$9^2 =$

$4^2 =$

$16^2 =$

$5^2 =$

$15^2 =$

Name: _____

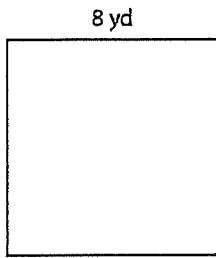
Area of a Square

T1L1S1

Developing

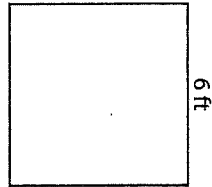
Find the area of each square.

1)



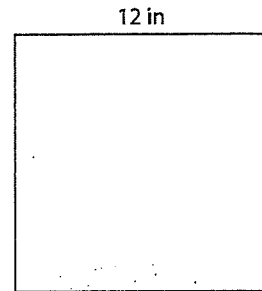
Area =

2)



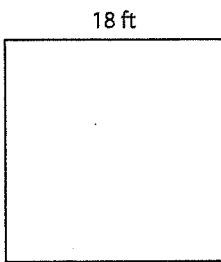
Area =

3)



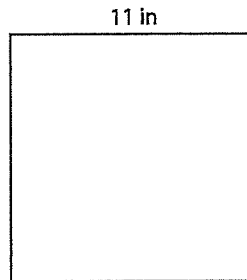
Area =

4)



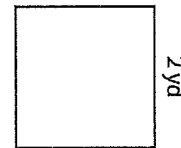
Area =

5)



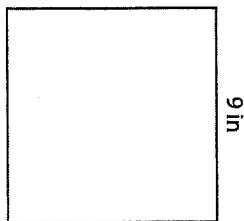
Area =

6)



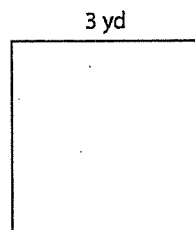
Area =

7)



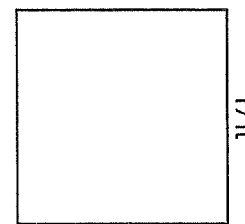
Area =

8)



Area =

9)



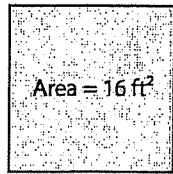
Area =

Name : _____

Developing Area of a Square

Sheet 1

Example :



$$\text{Area} = \text{Side} \times \text{Side}$$

$$16 \text{ ft}^2 = \text{Side}^2$$

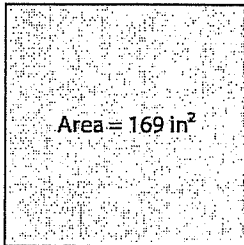
$$\sqrt{16} = \text{Side}$$

$$\text{Side} = 4 \text{ ft}$$

Ans = 4 ft

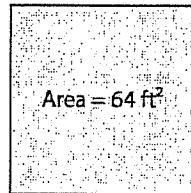
Find the side length of each square.

1)



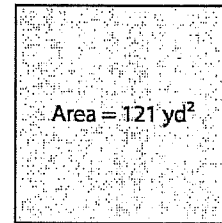
Side length =

2)



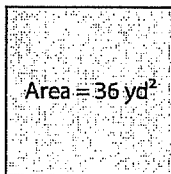
Side length =

3)



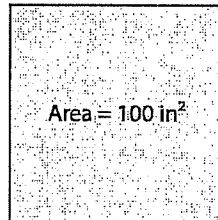
Side length =

4)



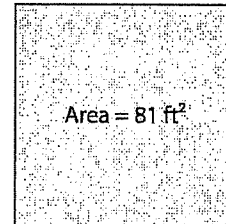
Side length =

5)



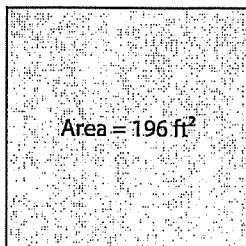
Side length =

6)



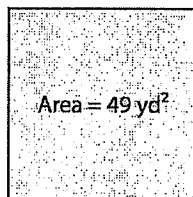
Side length =

7)



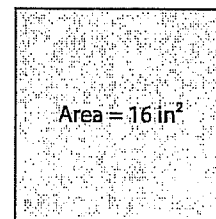
Side length =

8)



Side length =

9)



Side length =

Common Squares and Square Roots

Proficient

Calculate the square or principal (positive) square root of each number.

$10^2 = \underline{\quad}$

$30^2 = \underline{\quad}$

$50^2 = \underline{\quad}$

$\sqrt{625} = \underline{\quad}$

$\sqrt{25} = \underline{\quad}$

$\sqrt{8100} = \underline{\quad}$

$70^2 = \underline{\quad}$

$\sqrt{169} = \underline{\quad}$

$\sqrt{4} = \underline{\quad}$

$4^2 = \underline{\quad}$

$\sqrt{64} = \underline{\quad}$

$15^2 = \underline{\quad}$

$40^2 = \underline{\quad}$

$6^2 = \underline{\quad}$

$1^2 = \underline{\quad}$

$80^2 = \underline{\quad}$

$\sqrt{196} = \underline{\quad}$

$60^2 = \underline{\quad}$

$\sqrt{81} = \underline{\quad}$

$7^2 = \underline{\quad}$

$11^2 = \underline{\quad}$

$\sqrt{144} = \underline{\quad}$

$\sqrt{9} = \underline{\quad}$

$20^2 = \underline{\quad}$

Score: /24

Name : _____

Area of a Square

T2L2S5

Proficient

A) Find the area of each square for the given side length.

1) Side length = 25 in

Area = _____

2) Side length = 62 yd

Area = _____

3) Side length = 19 yd

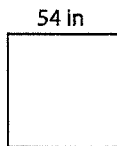
Area = _____

4) Side length = 36 ft

Area = _____

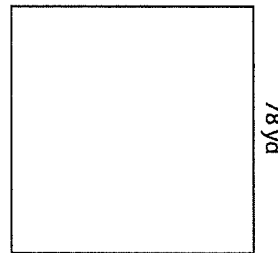
B) Find the area of each square.

5)



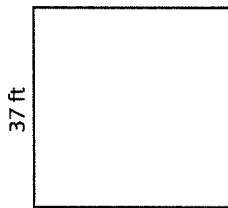
Area = _____

6)



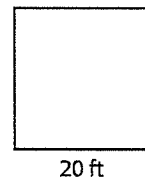
Area = _____

7)



Area = _____

8)



Area = _____

9) The length of the side of a square is 83 inches. What is the area of the square?

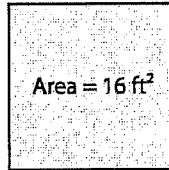
Name: _____

Proficient

Area of a Square

Sheet 4

Example :



$$\text{Area} = \text{Side} \times \text{Side}$$

$$16 \text{ ft}^2 = \text{Side}^2$$

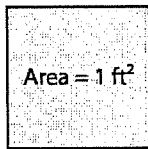
$$\sqrt{16} = \text{Side}$$

$$\text{Side} = 4 \text{ ft}$$

Ans = 4 ft

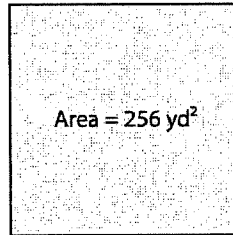
Find the side length of each square.

1)



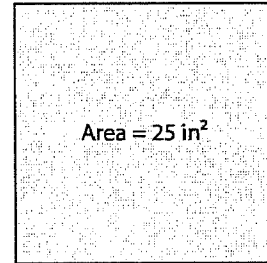
Side length =

2)



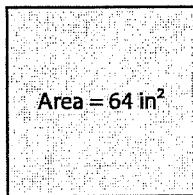
Side length =

3)



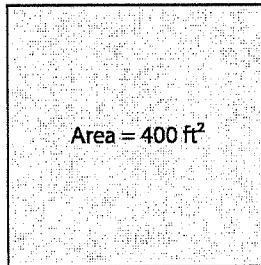
Side length =

4)



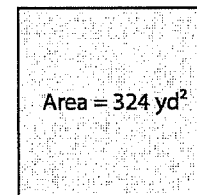
Side length =

5)



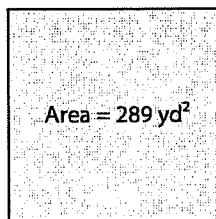
Side length =

6)



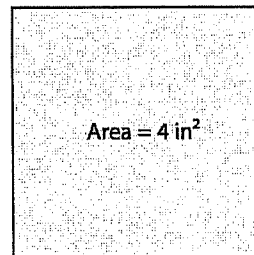
Side length =

7)



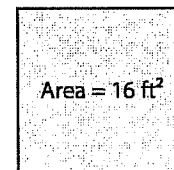
Side length =

8)



Side length =

9)



Side length =

Name: _____

Extending Squaring Numbers

Integers: S1

A) Find the values of the following.

1) $(-1)^2$

2) 43^2

3) 34^2

4) $(-14)^2$

5) 27^2

6) $(-38)^2$

B) Find the squares of the following numerals.

1) -31

2) 46

3) -25

4) 18

5) -33

6) 8

C) 1) Which of the following is the square of 14?

i) 169

ii) 196

iii) -196

iv) 28

2) Which of the following is equal to $(-40)^2$?

i) $-1,600$

ii) 1,680

iii) 1,600

iv) 800

Extending
Area of a Square

T2S1

A) Find the area of each square for the given side length.

1) Side length = $\frac{5}{2}$ yd

Area = _____

2) Side length = $2\frac{1}{3}$ in

Area = _____

3) Side length = $\frac{1}{6}$ in

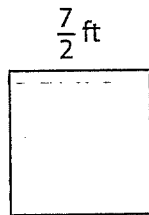
Area = _____

4) Side length = $3\frac{3}{4}$ ft

Area = _____

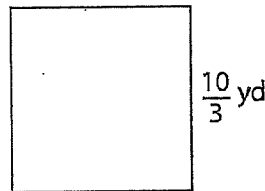
B) Find the area of each square.

5)



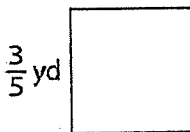
Area = _____

6)



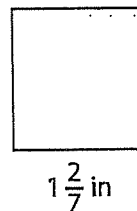
Area = _____

7)



Area = _____

8)



Area = _____

9) If the side of a square measures $\frac{8}{9}$ foot, determine the area.

Extending
Area of a Square

T251

A) Find the area of each square for the given side length.

1) Side length = 3.5 yd

Area = _____

2) Side length = 7.3 in

Area = _____

3) Side length = 11.1 in

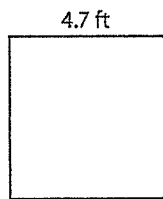
Area = _____

4) Side length = 18.6 ft

Area = _____

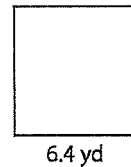
B) Find the area of each square.

5)



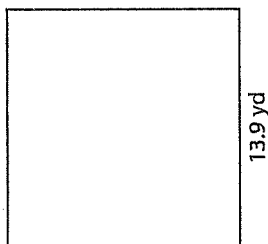
Area = _____

6)



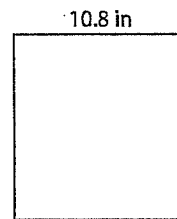
Area = _____

7)



Area = _____

8)



Area = _____

9) If the side of a square measures 19.5 feet, determine the area.
