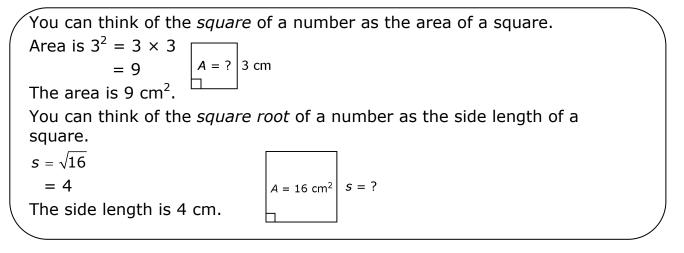


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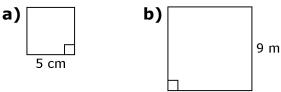
Squares and Square Roots

Chapter 3

Read



1. What is the area of each square?



2. What is the side length of each square?

a)	
	$A = 64 \text{ mm}^2$

b) area of 36 cm^2

c) area of 400 m²

c) sides of length 3 km

Substituting Into Formulas

A formula is a mathematical statement that shows the relationship between specific quantities. An example is $C = 2\pi r$, where C is the circumference and r is the radius of a circle. What is the circumference and area of a circle with a radius of 10 cm? Use 3.14 as an approximate value for π . $C = 2\pi r$ $= 2\pi (10)$ $\approx 20(3.14)$ $\approx 3.14(100)$ ≈ 62.8 The circumference is approximately 62.6 cm. The area is approximately 314 cm².





- **3.** What is the perimeter, *P*, of a rectangle with a width, *w*, of 4 m and a length, *l*, of 7 m? Use the formula P = 2w + 2l.
- **4.** When a certain chemical is added to water, the water gets hotter. A formula for the temperature, *t*, in degrees Celsius, of the water is t = 24 + 8m, where *m* is the amount of chemical added, in kg. Copy and complete the following table of values for the missing values of *m* and *t*.

<i>m</i> (kg)	0	5			9
t (°C)			48	72	

Volume and Surface Area

