Real Numbers and the Number Line

Vocabulary

Review

1. Circle the numbers that are *perfect squares*.

1		12	16		20	
	100	:	121	200		289

square root

 $\sqrt{16} = 4$

because

 $4^2 = 16$

Vocabulary Builder

square root (noun) skwer root

Definition: The **square root** of a number is a number that when multiplied by itself is equal to the given number.

Using Symbols: $\sqrt{16} = 4$

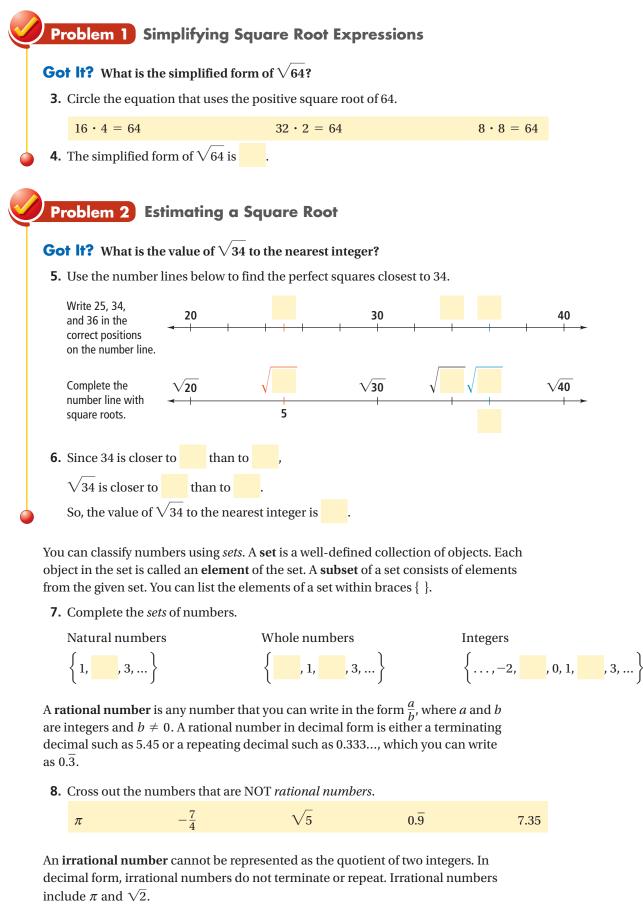
Using Words: The square root of 16 is 4. It means, "I multiply 4 by itself to get 16."

• Use Your Vocabulary

2. Use what you know about *perfect squares* and *square roots* to complete the table.

Number	Number Squared	Number	Number Squared
1	1	7	49
2	4		64
3			81
4			
5		11	
	36		

10



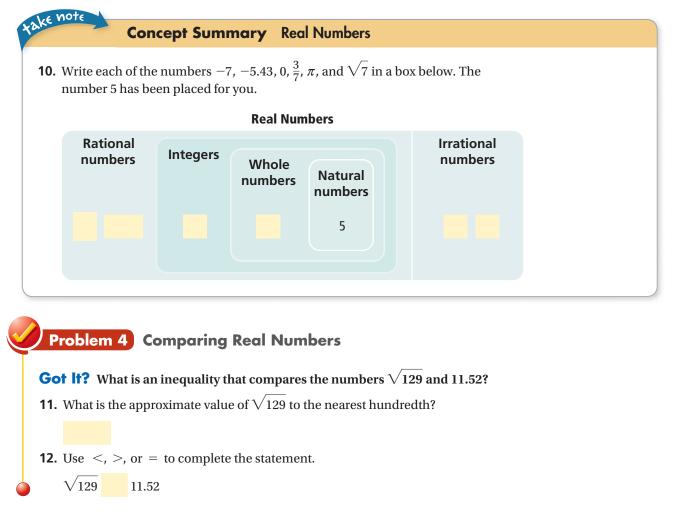
Problem 3 Classifying Real Numbers

Got It? To which subsets of the real numbers does each number belong?

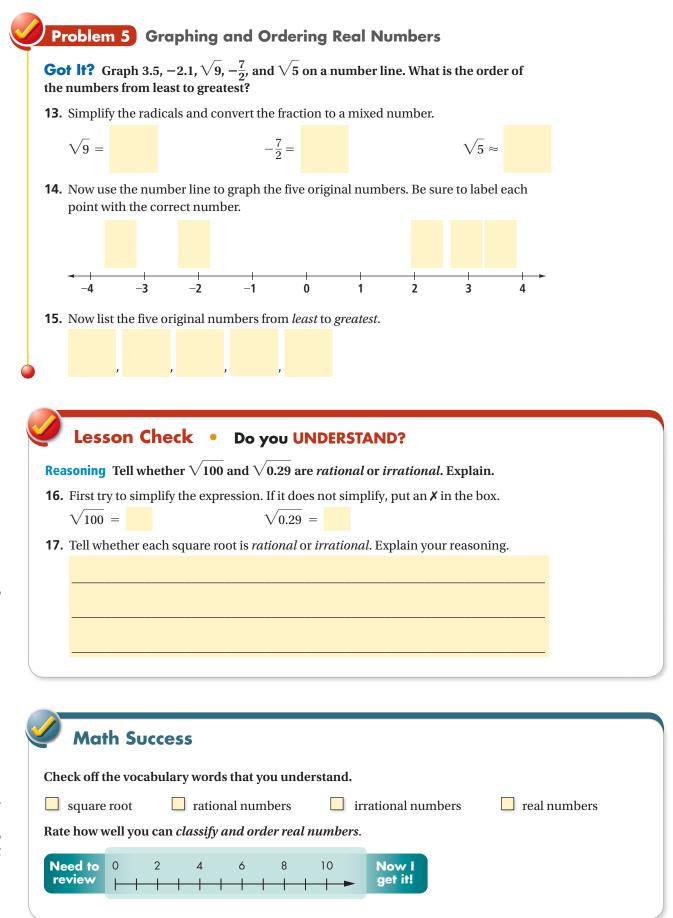
$$\sqrt{9}$$
 $\frac{3}{10}$ -0.45 $\sqrt{12}$

9. Is each number an element of the set? Place a ✓ if it is. Place an X if it is not.

Number	Whole Numbers	Integers	Rational Numbers	Irrational Numbers
$\sqrt{9}$	v	•	V	×
<u>3</u> 10				
-0.45				
$\sqrt{12}$				



12



13