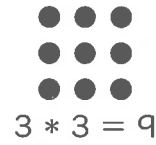


Exploring Square Numbers

Home Link 2-1		
NAME	DATE	TIME

A **square number** is a number that can be written as the product of a number multiplied by itself. For example, the square number 9 can be written as $3 * 3$.



- ① Fill in the missing factors and square numbers.

Factors	Square Number
	4
$3 * 3$	9
$4 * 4$	
	25
	36

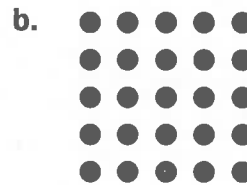
- ② What pattern(s) do you see in the factors? In the products?

- ③ What other pattern(s) do you see in the table?

- ④ Write an equation to describe each array.



Equation: _____



Equation: _____

- ⑤ a. Which of the arrays above shows a square number? _____
 b. Explain. _____

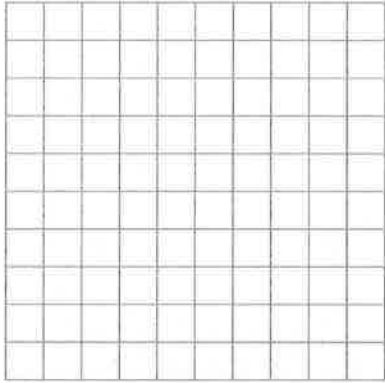
Practice

- ⑥ 32, 45, 58, _____, _____, _____ Rule: _____
 ⑦ _____, _____, _____, 89, 115, 141 Rule: _____

Area of a Rectangle

Home Link 2-2		
NAME	DATE	TIME

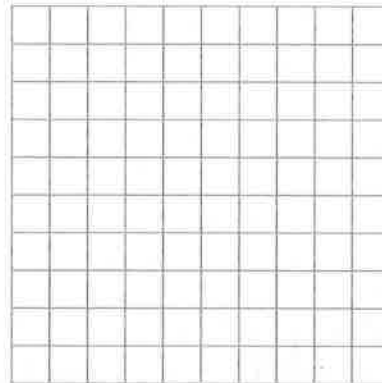
- ① Draw a rectangle that has length of 9 units and width of 4 units.



Equation: _____

Area = _____ square units

- ② Draw a rectangle that has a length of 7 units and a width of 8 units.



Equation: _____

Area = _____ square units

Use the formula $A = l * w$ to find the area of each rectangle.

<p>③</p> <p>Equation: _____</p> <p>Area = _____ square feet</p>	<p>④</p> <p>Equation: _____</p> <p>Area = _____ square inches</p>
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- ⑤ Riley's dining room tabletop is 9 feet long and 6 feet wide. What is the area of the tabletop?

Equation: _____

Area = _____ square feet

Practice

⑥ $368 - 59 =$ _____

⑦ $194 - 147 =$ _____

⑧ _____ $= 1,729 - 623$

Working with Factor Pairs

- ① Write equations to help you find all the factor pairs of each number below. Use dot arrays, if needed.



Number	Equations with Two Factors	Factor Pairs
6	$1 * 6 = 6$ $2 * 3 = 6$ $3 * 2 = 6$ $6 * 1 = 6$	<i>1 and 6</i> <i>2 and 3</i>
9		
10		
17		
40		

Practice

- ② $356 + 433 =$ _____ ③ _____ $= 2,167 + 696$
 ④ _____ $= 4,578 - 2,232$ ⑤ $3,271 - 1,089 =$ _____

Finding Multiples

Home Link 2-4

NAME _____

DATE _____

TIME _____



- ① List the first 5 multiples of 4. _____
- ② List the first 10 multiples of 2. _____
- ③
 - a. List the first 10 multiples of 3. _____
 - b. List the first 10 multiples of 5. _____
 - c. List the multiples of 3 that are also multiples of 5. _____
- ④ Is 28 a multiple of 7? _____ Explain. _____

- ⑤ Is 35 a multiple of 6? _____ Explain. _____

- ⑥ a. List the factors of 15. List the multiples through 15 of each factor.

Factors of 15	Multiples of the Factors (of 15)

- b. Is 15 a multiple of each of its factors? _____ Explain. _____

Practice

- ⑦ 24, _____, 48, _____, 72, _____ Rule: _____
- ⑧ _____, 108, 162, _____, 270, _____ Rule: _____
- ⑨ 86, _____, 52, _____, 18, _____ Rule: _____
- ⑩ 425, _____, 339, _____, 253, _____ Rule: _____

Prime and Composite Numbers

Home Link 2-5		
NAME	DATE	TIME



A **prime number** is a whole number that has exactly two different factors—1 and the number itself. A **composite number** is a whole number that has more than two different factors.

For each number:

- List all of its factors.
- Write whether the number is prime or composite.
- Circle all of the factors that are prime numbers.

	Number	Factors	Prime or Composite?
①	11		
②	19		
③	24		
④	29		
⑤	36		
⑥	49		
⑦	50		
⑧	70		
⑨	100		

Practice

Solve.

⑩ $841 + 527 = \underline{\hspace{2cm}}$

⑪ $\underline{\hspace{2cm}} = 3,263 + 5,059$

⑫ $7,461 + 2,398 = \underline{\hspace{2cm}}$

⑬ $\underline{\hspace{2cm}} = 4,172 - 3,236$

⑭ $8,158 = 5,071 + \underline{\hspace{2cm}}$

⑮ $3,742 - 3,349 = \underline{\hspace{2cm}}$

Using Multiplication



NAME _____

DATE _____

TIME _____

Home Market sells 3 grapefruits for \$2.



- ① Darius spent \$6 on grapefruits. How many did he buy? Use words, numbers, or diagrams to show your reasoning.

_____ grapefruits

- ② Jana bought 15 grapefruits. How much did she spend? Use words, numbers, or diagrams to show your reasoning.

_____ dollars

- ③ On the back of this page, write a multiplication number story about buying grapefruits at Home Market. Show how to solve your number story.

Practice

Write these numbers using words.

④ 12,309 _____

⑤ 30,041 _____

⑥ 600,780 _____

⑦ 9,090,506 _____