

Chapter Prerequisite Skills

PREREQUISITE SKILLS QUIZ

Preparing for Success To prepare for success in this chapter, test your knowledge of these concepts and skills. You may want to look at the pages referred to in case for additional review.

1. **Variables** Label the given, the least, and the greatest in the expression x^2 .

Write the mixed number as an improper fraction. $\frac{7}{8} \frac{5}{8}$

$$\frac{1}{2} \cdot \frac{1}{3} \quad \frac{1}{4} \cdot \frac{1}{5} \quad \frac{1}{6} \cdot \frac{1}{7}$$

Find the product. $\frac{1}{2} \cdot \frac{3}{4}$

$$\frac{1}{2} \cdot \frac{3}{4} \quad \frac{1}{3} \cdot \frac{2}{5} \quad \frac{1}{4} \cdot \frac{3}{7} \quad \frac{1}{5} \cdot \frac{2}{3} \cdot \frac{4}{5}$$

Write the given in words and as a repeated multiplication. Then evaluate the power. 10^2

$$10^2 \quad 10^3 \quad 10^4 \quad 10^5 \quad 10^6$$

NOTETAKING STRATEGIES

Note Strategy

You will find a notetaking strategy in the beginning of each chapter. Look for additional notetaking and study strategies throughout the chapter.

RECORDING THE PROCESS When solving equations in class, be sure to write a verbal description next to each step in a calculation. Then you can refer to the examples when solving similar problems.

Calculation step	Verbal description
$-5x - 2 = -12$	Write original equation.
$-5x - 2 + 2 = -12 + 2$	Add 2 to each side.
$-5x = -10$	Simplify.
$\frac{-5x}{-5} = \frac{-10}{-5}$	Divide each side by -5 .
$x = 2$	Simplify.

The strategy above will be helpful in Lesson 4.5 when you are simplifying variable expressions with powers.

4.1 Finding Prime Numbers

Goal

Identify prime and composite numbers using divisibility.

Materials

• pencil
• paper

A **prime number** is a whole number that is greater than 1 and has exactly two whole number factors, 1 and itself. A **composite number** is a whole number that is greater than 1 and has more than two whole number factors. A **multiple** of a number is the product of the number and any nonzero whole number.

Investigate

Use patterns to determine if a number is prime or composite.

- Write the whole numbers from 2 to 60 in rows of 6 as shown.
- Start with the number 2. Circle it and cross out every multiple of 2 after 2. (The first few multiples of 2 have been crossed out for you.)
- Move to the next number that is not crossed out. Circle it and cross out all other multiples of that number.
- Repeat step 3 until every number is either circled or crossed out.

2	3	4	5	6
2	3	4	5	6
7	8	9	10	11
12	13	14	15	16
17	18	19	20	21
22	23	24	25	26
27	28	29	30	31
32	33	34	35	36
37	38	39	40	41
42	43	44	45	46
47	48	49	50	51
52	53	54	55	56
57	58	59	60	61

Draw Conclusions

- Observing** What can you say about the numbers that have been crossed out? What can you say about the numbers that have been circled? Use the words *prime* and *composite* in your answers.
- Critical Thinking** All the numbers in the sixth column are crossed out because they are all multiples of 5. Explain why all the numbers in the second column (except for 2), in the third column (except for 3), and in the fourth column are crossed out.
- Predict** Suppose you repeated the activity but arranged the numbers in rows of 10 instead of 6. Predict which columns would contain only crossed-out numbers. Then check your prediction.

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Algebra 1 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998 **Geometry, Grade 10 Practice Workbook with Examples** Holt McDougal, 2000 *Math Course 1, Grade 6 Preparation for Middle School Math* Holt McDougal, 2000 Algebra 2: Explorations and Applications Holt McDougal, 2003-01 **Tyranny of the Textbook**

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