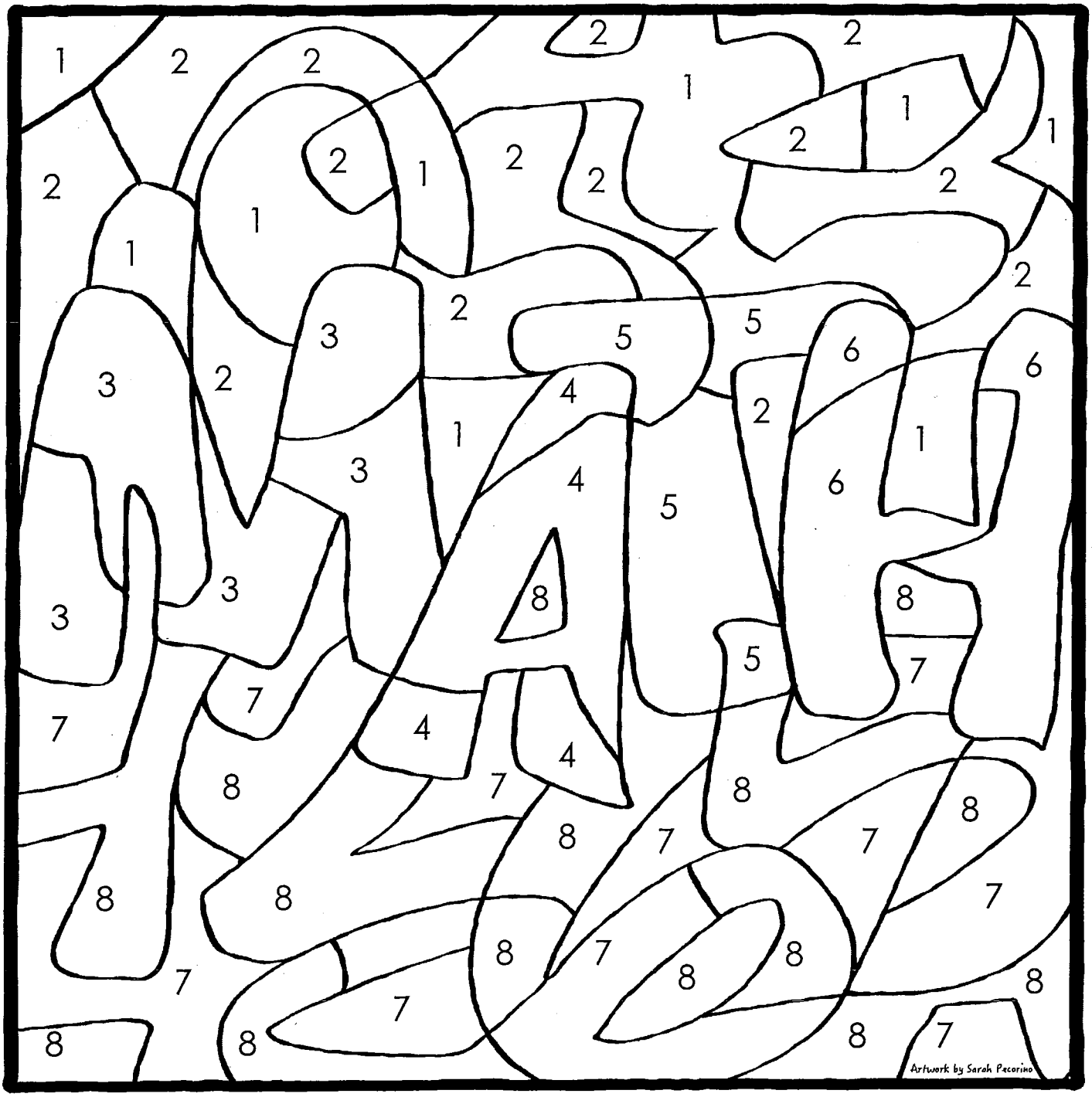
Name:_____ Date:_____

Prime Factorization Color by Number

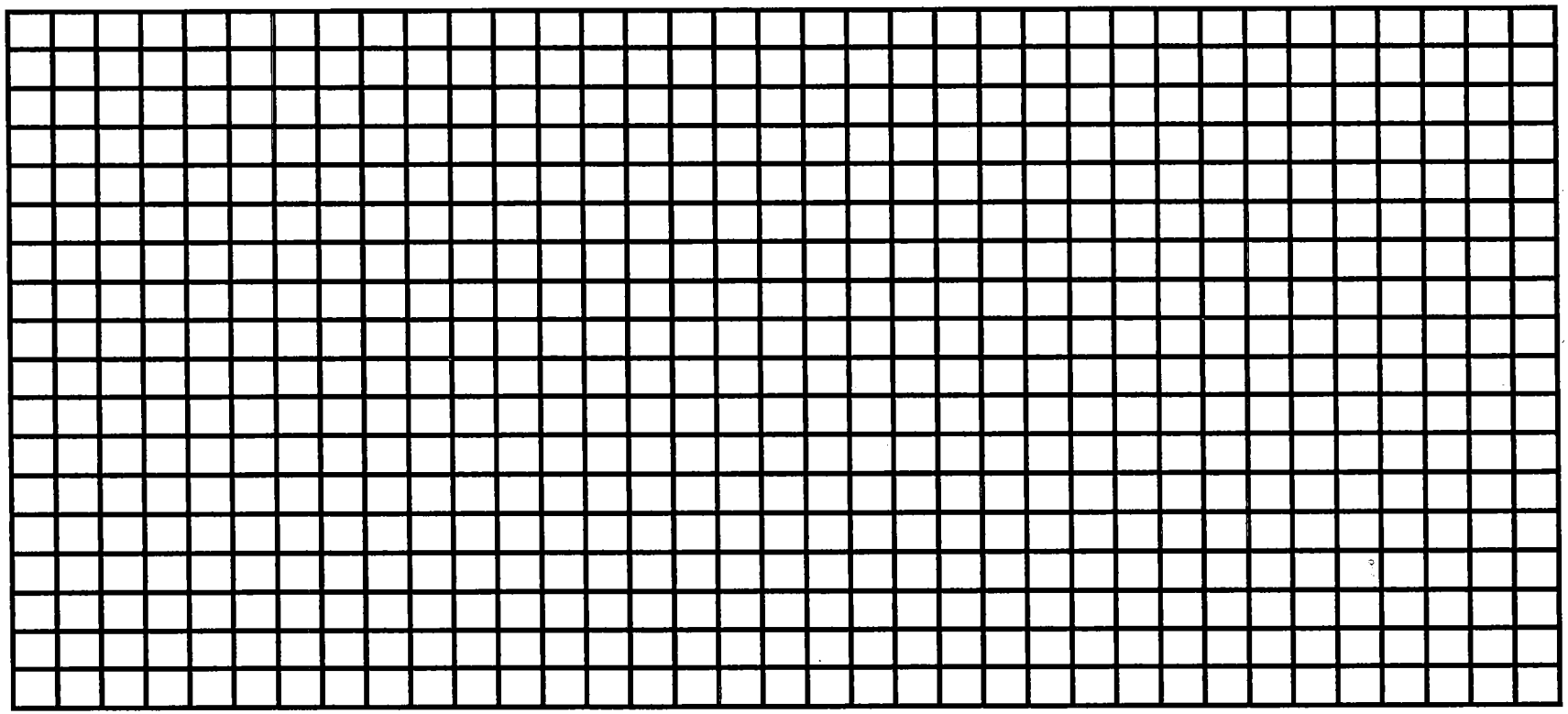


Prime Factorization Color by Number

	If the answer is....	If the answer is....
Find the prime factorization of: **20**	$2^2 \times 5$ Color the 1's RED	5×4 Color the 1's BLACK
Find the prime factorization of: **36**	$2^2 \times 3^2$ Color the 2's ORANGE	$2^3 \times 3^2$ Color the 2's GREEN
Find the prime factorization of: **80**	8×10 Color the 3's PURPLE	$2^4 \times 5$ Color the 3's BLUE
Find the prime factorization of: **48**	$2^4 \times 3$ Color the 4's PURPLE	$2 \times 3 \times 7$ Color the 4's GREEN
Find the prime factorization of: **50**	$2^2 \times 5^2$ Color the 5's RED	2×5^2 Color the 5's GREEN
Find the prime factorization of: **130**	$2 \times 5 \times 13$ Color the 6's PINK	$2^2 \times 5 \times 13$ Color the 6's RED
Find the prime factorization of: **200**	$2^2 \times 5^2$ Color the 7's BLUE	$2^3 \times 5^2$ Color the 7's YELLOW
Find the prime factorization of: **121**	11^2 Color the 8's LIGHT BLUE	2×11 Color the 8's LIGHT GREEN

Name:_____ Date:_____

1. Use the graph paper below. Draw all the rectangles with the area of 24 square units.
2. List the dimensions of the rectangles.
3. Now draw all the rectangles with an area of 7 square units.
4. List the dimensions of the rectangles.



Name:_____ Date:_____

Finding Prime Factorization

1. Numbers that have more than 2 factors are called _____ numbers.
2. Numbers that have exactly two factors are called _____ numbers. These two factors are one and itself.
3. _____ has exactly one factor so it is neither prime nor composite.
4. Tell whether each number is prime or composite:
    a. 2_____
    b. 4 _____
    c. 11 _____
    d. 12 _____
    e. 24 _____
    f. 31 _____
    g. 63 _____
    h. 13 _____
5. To write the prime factorization of a composite number, you write the number as a _____ of its prime factors.
6. A _____ can help you find the prime factors of a number.

Let's Try It!

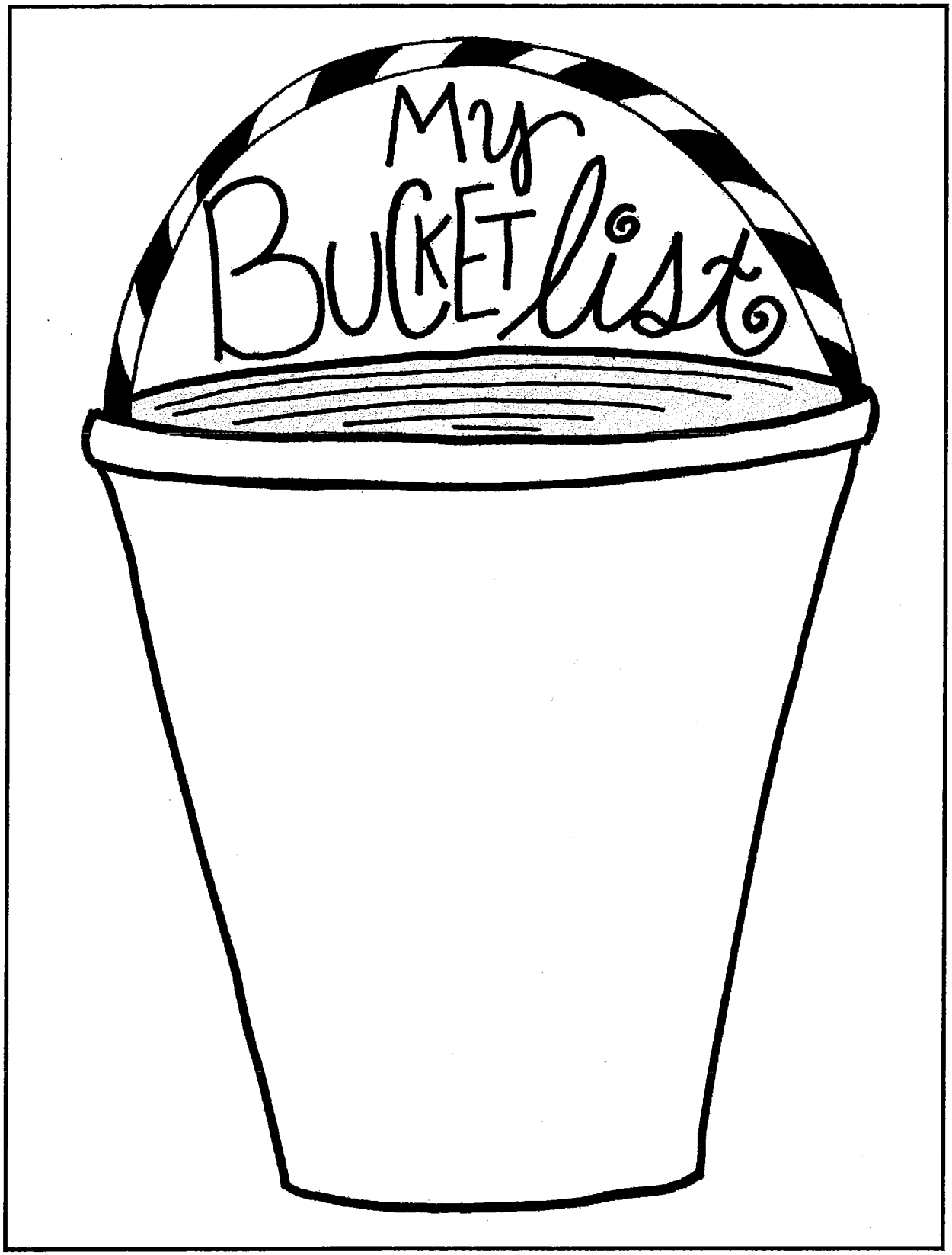
7. Use a factor tree to write the prime factorization of 24

Name:_____ Date:_____

8. Use a factor tree to write the prime factorization of 60

9. Use a factor tree to write the prime factorization of 28

10. Use a factor tree to write the prime factorization of 36



Name:

"Wonder" pages 142-157

Please answer the questions below.

1. At the end of the "Science" chapter, how does Jack Will react to Julian saying, "You don't have to be friends with that freak if you don't want to be, you know"? (Place a check-mark in the correct answer box below.)

- ❑ Jack Will agrees with Julian and they begin to make fun of Auggie.
- ❑ Jack Will punches Julian in the mouth.
- ❑ Auggie walks up to the two boys and they laugh at him.
- ❑ Julian punches Jack Will in the mouth.

*Please underline RACES in #2,3,4)

2. What does Jack Will say about Julian after this reaction? (Restate, Answer, and Cite only).

3. What does this change indicate about Jack Will? (Restate and Answer the question only.)

4. Describe how this event will affect the plot of the novel. (Restate and Answer the question only.) **Plot = the events that make up a fictional story.**

Prime Factorization Matching

Match each prime factorization with the correct number by placing the letter of the prime factorization on the line next to the matching number.

A. $2 \cdot 3 \cdot 11$ _____ 245

B. $3^2 \cdot 5^2$ _____ 85

C. $2 \cdot 5 \cdot 7 \cdot 11$ _____ 65

D. $5 \cdot 13$ _____ 1000

E. $2^2 \cdot 5^2 \cdot 7$ _____ 325

F. $2^2 \cdot 3 \cdot 5^2$ _____ 216

G. $2^3 \cdot 3^3$ _____ 225

H. $3^3 \cdot 5^2$ _____ 96

I. $2^5 \cdot 3$ _____ 78

J. $2 \cdot 3^4$ _____ 700

K. $5 \cdot 17$ _____ 686

L. $2^2 \cdot 3^2 \cdot 5$ _____ 507

M. $2 \cdot 7^3$ _____ 770

N. $2^3 \cdot 5^3$ _____ 66

O. $2 \cdot 3 \cdot 13$ _____ 162

P. $5 \cdot 7^2$ _____ 675

Q. $5^2 \cdot 13$ _____ 180

R. $3 \cdot 13^2$ _____ 300