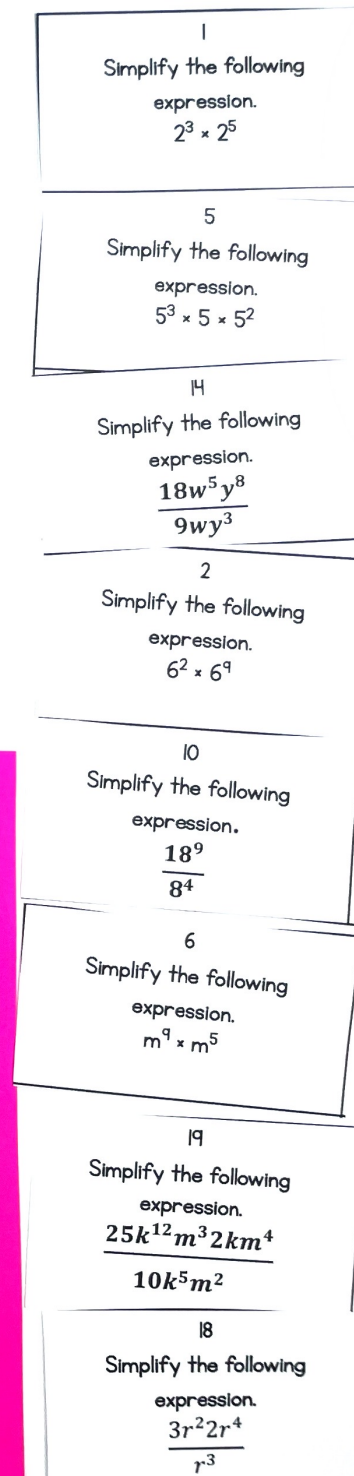
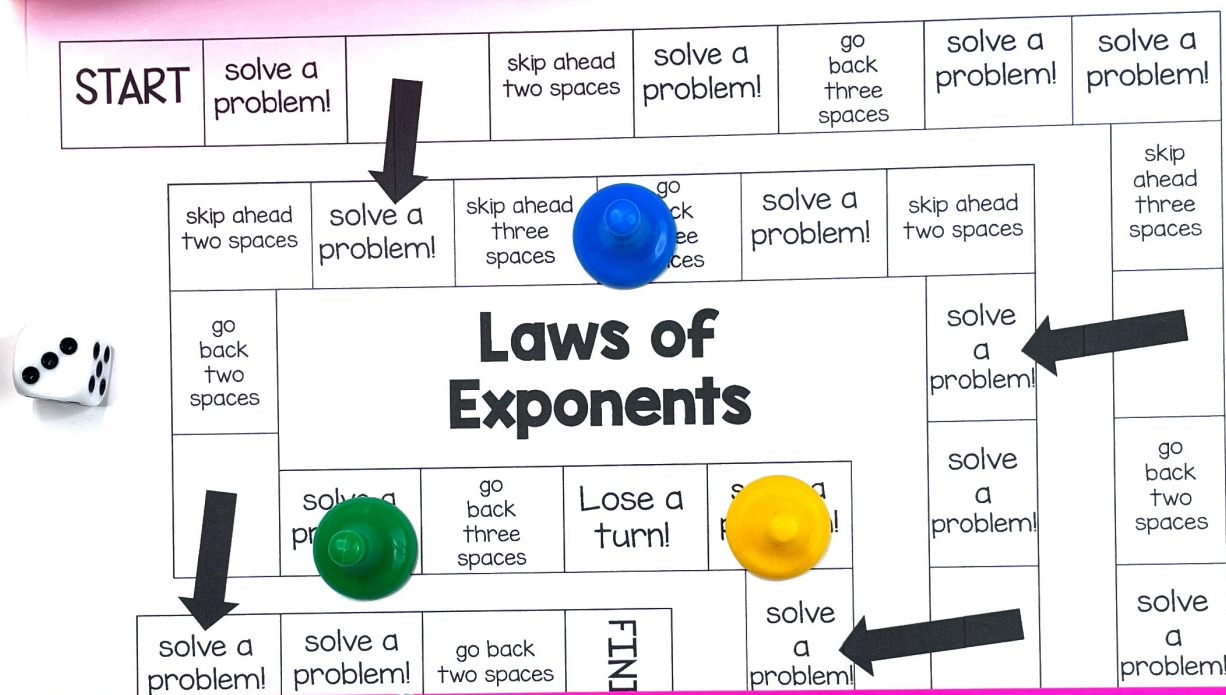
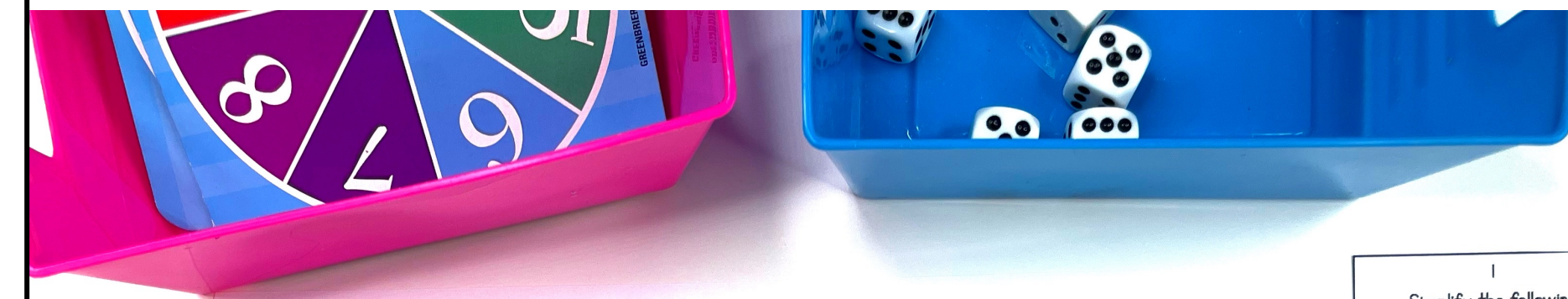


# Laws of Exponents

SCROLL  
to take a look inside!



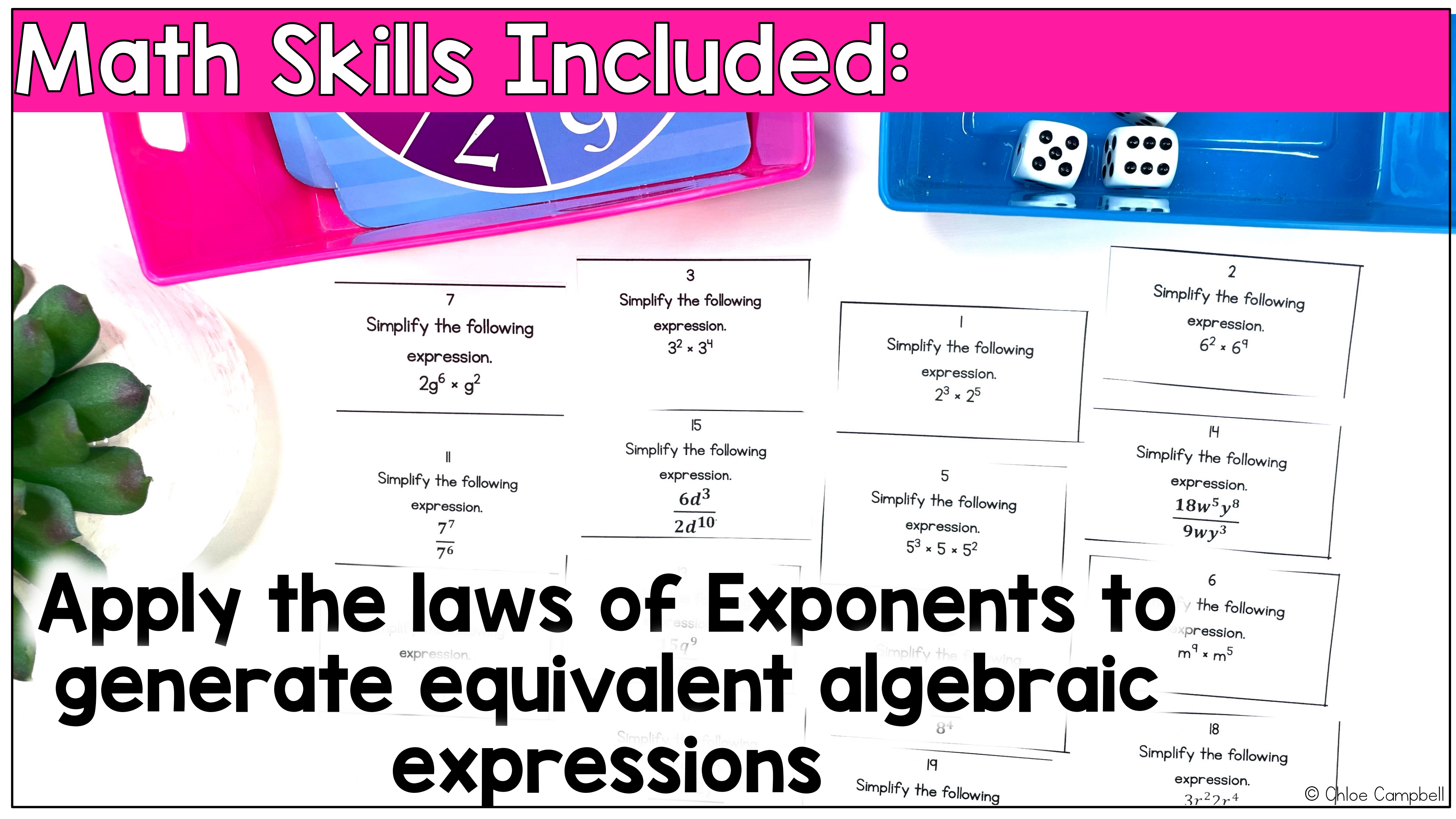
Name: \_\_\_\_\_

**Laws of Exponents Recording Sheet**

1	2	3	4
$2^8$	$6$	$3^6$	$7^{14}$
5	6	7	8
$5^6$	$m^{14}$	$2g^8$	$7a^7b^4$
9	10	7	12
$10^3$	$8^5$		$12a^5$
13	14	15	16



# Math Skills Included:



7  
Simplify the following expression.  
 $2g^6 \times g^2$

3  
Simplify the following expression.  
 $3^2 \times 3^4$

15  
Simplify the following expression.  
 $\frac{6d^3}{2d^{10}}$

1  
Simplify the following expression.  
 $2^3 \times 2^5$

2  
Simplify the following expression.  
 $6^2 \times 6^9$

14  
Simplify the following expression.  
 $\frac{18w^5y^8}{9wy^3}$

5  
Simplify the following expression.  
 $5^3 \times 5 \times 5^2$

6  
Simplify the following expression.  
 $m^9 \times m^5$

18  
Simplify the following expression.  
 $3r^2 \times r^4$

19  
Simplify the following expression.

84  
Simplify the following expression.

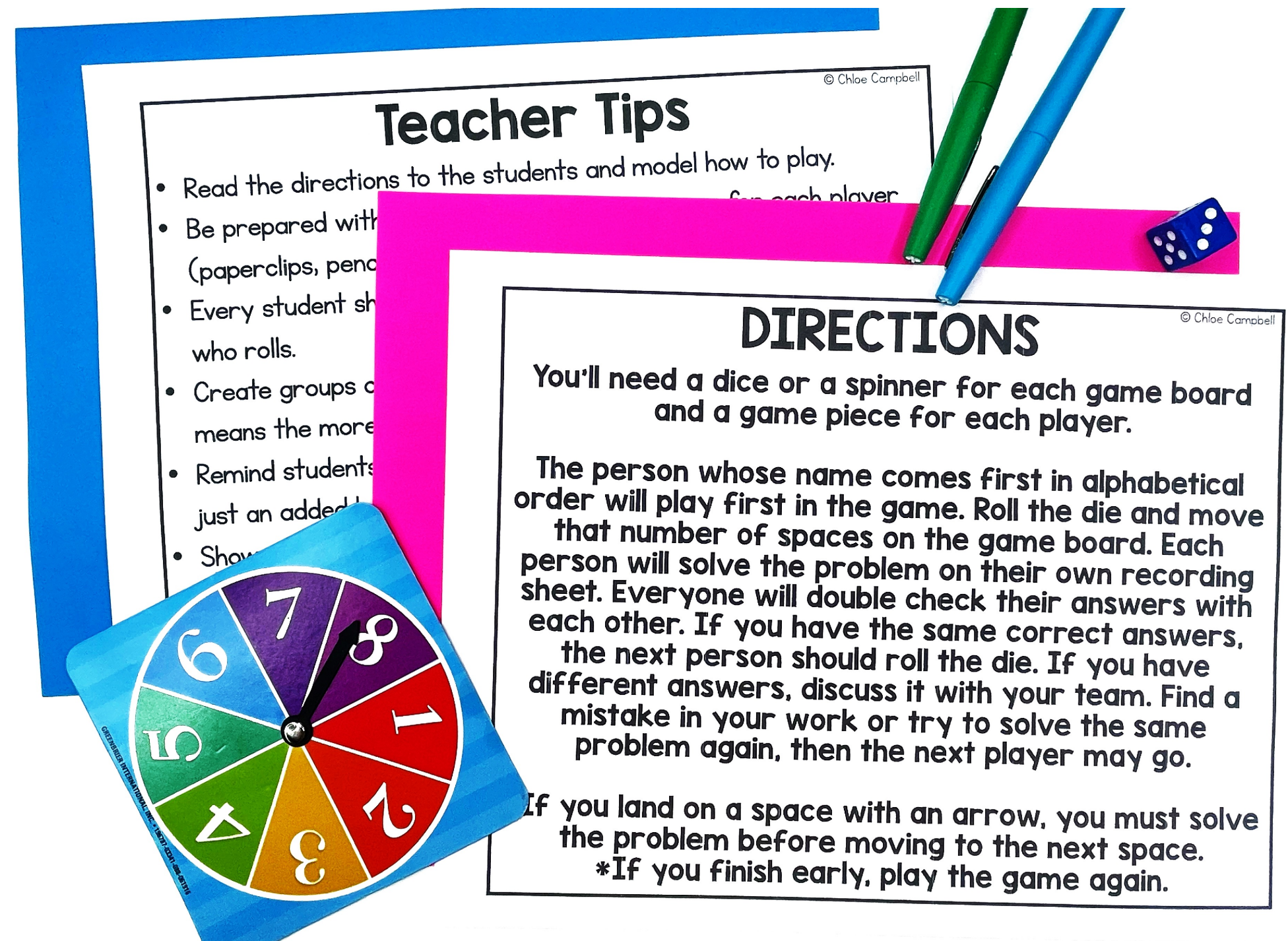
15q<sup>9</sup>  
Simplify the following expression.

**Apply the laws of Exponents to generate equivalent algebraic expressions**



# You'll Receive

- ★ Teacher Tips
- ★ Student Directions
- ★ Printable Math Board Game
- ★ Recording Sheet
- ★ Answer Key





# Student Recording Sheet

## Laws of Exponents

go back two spaces

solve a problem!

go back three spaces

Lose a turn!

solve a problem!

solve a problem!

solve a problem!

go back two spaces

FIN!

solve a problem!

Name:

## Laws of Exponents Recording Sheet

1 $2^8$	2 $6$	3 $3^6$	4 $7^{14}$
5 $5^6$	6 $m^{14}$	7 $2g^8$	8 $7a^7b^4$
9 $10^3$	10 $8^5$	11 $7$	12 $12a^5$
13	14	15	16

Simplify the following expression.

$$\frac{18^9}{8^4}$$

Simplify the following expression.

$$m^9 \times m^5$$

Simplify the following expression.

$$\frac{25k^{12}m^3 2km^4}{10k^5m^2}$$

Simplify the following expression.

$$\frac{3r^2 2r^4}{r^3}$$



# HAPPY TEACHERS SAID...

“ This was a hit during centers. All students were engaged, and better yet – learning! Love this! ”

“ My students love playing games and a simple, easy prep game like this is a great addition to math centers, early finisher activities, and review days. ”

“ These are great for small group stations! What a fun task card adaptation. Students get to play a fun and competitive board game, but they also get to practice learning. Plus, the recording sheet makes it easy to grade and monitor student progress; they aren't just playing they are actively learning and participating with evidence of ability. Great resource! ”



# What's the Best Way to Use this Game?

- ✓ Math Centers or Stations
  - ✓ Whole Group Practice
    - ✓ Morning Work
    - ✓ Partner Activity
    - ✓ Early Finisher Tasks
      - ✓ Substitutes



# Tips for Playing Math Games:

- ★ Read the directions to the students and model how to play.
- ★ Be prepared with dice/spinner and game pieces for each player (paperclips, pencil top erasers, pieces from another game, etc.)
- ★ Every student should solve every problem – not just the person who rolls.
- ★ Create groups of 2-4 students. The lower number of students means the more focused students are while playing.



# Tips for Playing Math Games:

- ★ Remind students that the focus is not playing the game...that's just an added bonus! The focus should be on practicing the math skills.
- ★ Show students how to compare and discuss answers. Did you both get the same answer? If students get different answers, ask them to solve the problem using a different strategy or help coach each other through the problem.

# Why Board Games?

Research shows that challenge-based gamification in the classroom lead to an increase of 34.755% in student performance

(ScienceDirect, 2020).



# Students won't even realize they are learning!

**Laws of Exponents**

**Laws of Exponents Recording Sheet**

Name: \_\_\_\_\_

1	$2^8$	2	$6$	3	$3^6$	4	$7^{14}$
5	$5^6$	6	$m^{14}$	7	$2g^8$	8	$7a^7b^4$
9	$10^3$	10	$8^5$	11	$7$	12	$12a^5$
13		14		15		16	

**Math Problems:**

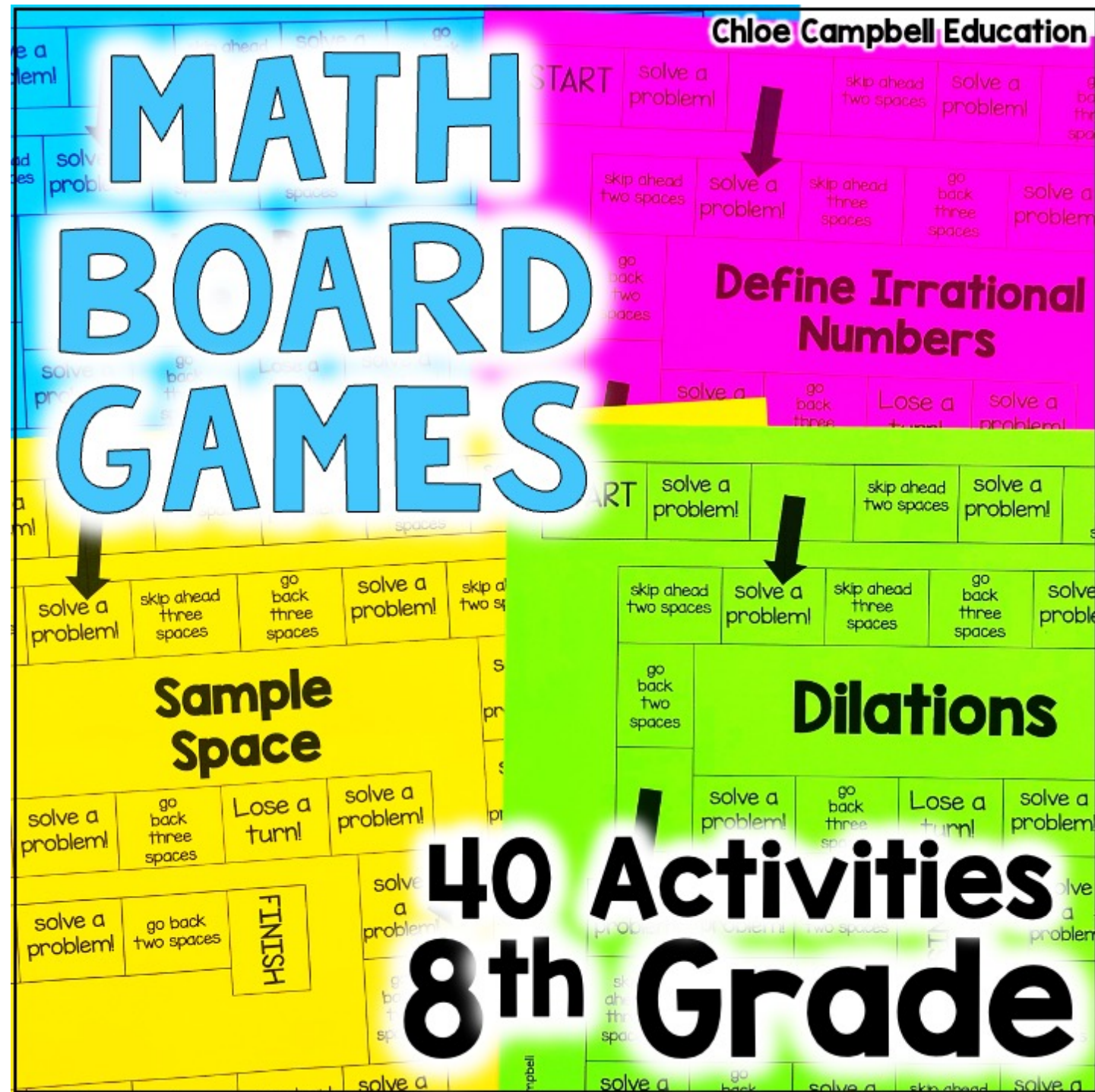
- 1 Simplify the following expression.  $2^3 \times 2^5$
- 5 Simplify the following expression.  $5^3 \times 5 \times 5^2$
- 14 Simplify the following expression.  $\frac{18w^5y^8}{9wy^3}$
- 2 Simplify the following expression.  $6^2 \times 6^9$
- 10 Simplify the following expression.  $\frac{18^9}{8^4}$
- 6 Simplify the following expression.  $m^9 \times m^5$
- 19 Simplify the following expression.  $\frac{25k^{12}m^32km^4}{10k^5m^2}$
- 18 Simplify the following expression.  $\frac{3r^{22}r^4}{r^3}$

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