

Scientific Notation Word Problems

SCROLL
to take a look inside!

START solve a problem! skip ahead two spaces solve a problem! go back three spaces solve a problem! solve a problem!

skip ahead two spaces solve a problem! skip ahead three spaces go back three spaces solve a problem! skip ahead two spaces skip ahead three spaces

go back two spaces

Scientific Notation

solve a problem! go back three spaces Lose a turn! solve a problem! go back two spaces

solve a problem! solve a problem! go back two spaces **FINISH** solve a problem!

skip ahead three spaces go back two spaces solve a problem! skip ahead three spaces

solve a problem! go back three spaces solve a problem! skip ahead two spaces solve a problem!

solve a problem! solve a problem!

4
 $(6.7 \cdot 10^8) + (3.6 \cdot 10^8)$

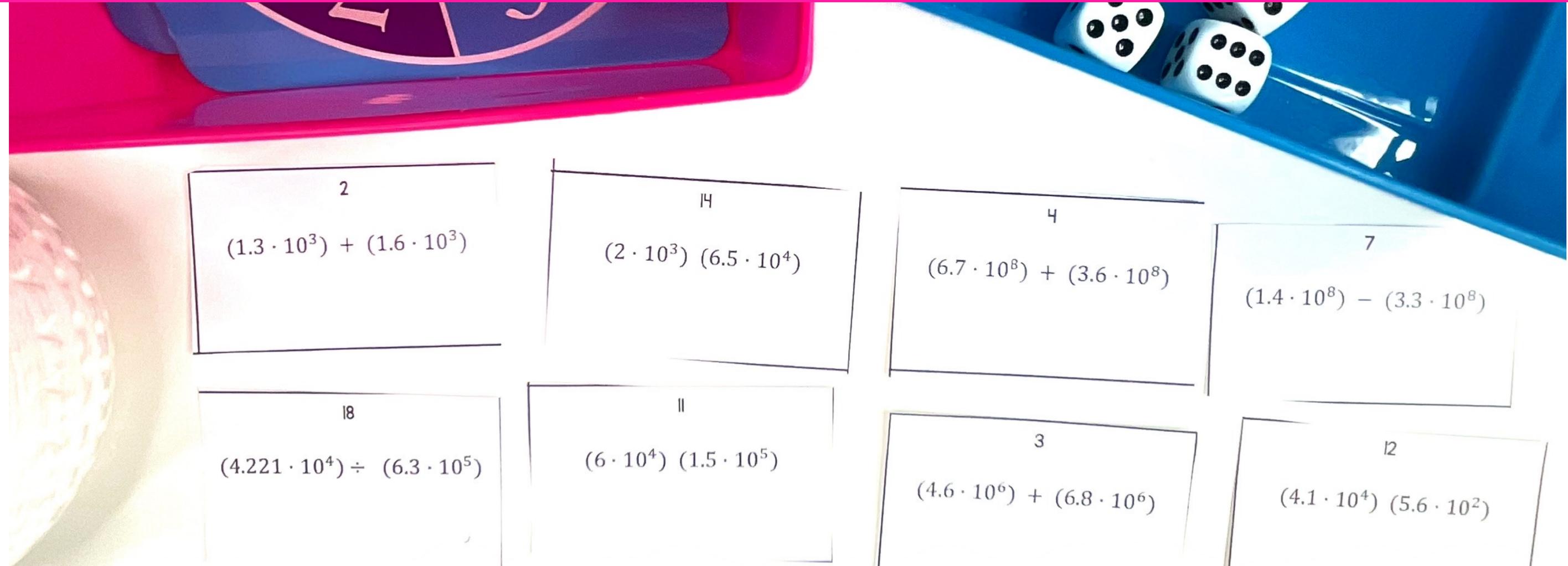
3
 $(4.6 \cdot 10^6) + (6.8 \cdot 10^6)$

20
 $(2.898 \cdot 10^3) + (1.2 \cdot 10^3)$

$(4.1 \cdot 10^5) + (3.2 \cdot 10^5)$

$(5.04 \cdot 10^9) + (2.1 \cdot 10^9)$

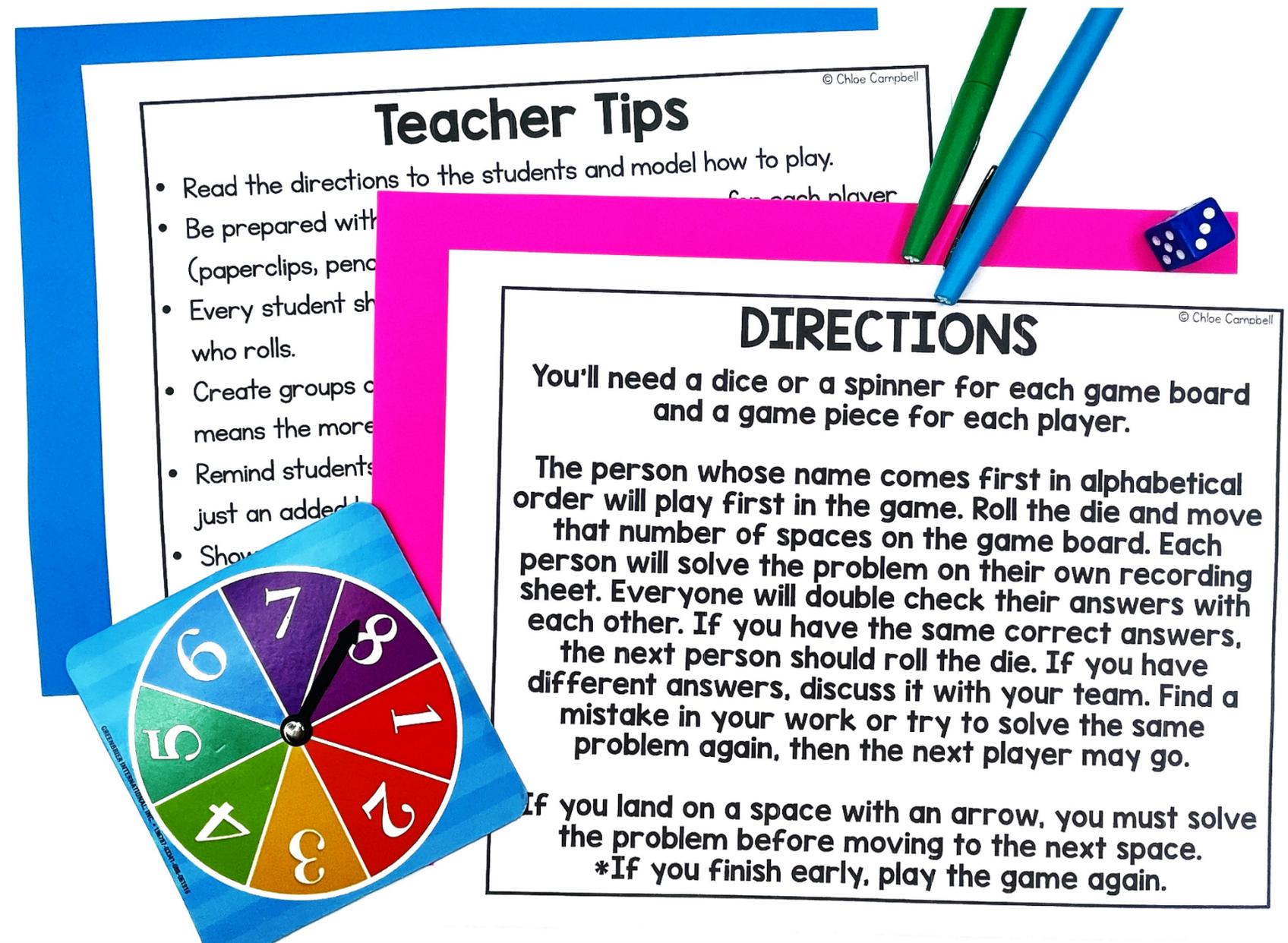
Math Skills Included:



Express numbers in a scientific notation to represent and approximate very large or very small quantities

You'll Receive

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



Student Recording Sheet

START solve a problem! skip ahead two spaces solve a problem! go back three spaces solve a problem! solve a problem!

skip two solve a problem! skip ahead three spaces go back three spaces solve a problem! skip ahead two spaces skip ahead three spaces

go back two spaces

Scientific Notation

go back two spaces solve a problem! go back three spaces Lose a turn! solve a problem! go back two spaces solve a problem!

solve a problem! solve a problem! go back two spaces **FINI** solve a problem! solve a problem!

Name _____

Scientific Notation Recording Sheet

1	2	3	4
$5.2 \cdot 10^2$	$2 \cdot 10^3$	$1.14 \cdot 10^7$	$1.03 \cdot 10^9$
5	6	7	8
$7.9 \cdot 10^2$	$7.6 \cdot 10^1$	$-1.9 \cdot 10^8$	$2.4 \cdot 10^2$
9	10	11	12
$-3 \cdot 10^4$	$-1.4 \cdot 10^3$	$9 \cdot 10^9$	$2.296 \cdot 10^7$
13	14	15	16

20
 $(2.898 \cdot 10^4) \div (6$

12
 $(4.1 \cdot 10^4) (5.6$

$(5.04 \cdot 10^3) \cdot 10$

15
 $(4.7 \cdot 10^4) (3.7 \cdot 10^7)$

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!

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Board game instructions:

- skip two
- solve a problem!
- skip ahead three spaces
- go back three spaces
- solve a problem!
- skip ahead two spaces
- skip ahead three spaces
- go back two spaces
- solve a problem!
- go back three spaces
- Lose a turn!
- solve a problem!
- go back two spaces
- solve a problem!
- solve a problem!
- solve a problem!
- go back two spaces
- FINISH
- solve a problem!
- solve a problem!

Name _____

Scientific Notation Recording Sheet

1	$5.2 \cdot 10^2$	2	$2 \cdot 10^3$	3	$1.14 \cdot 10^7$	4	$1.03 \cdot 10^9$
5	$7.9 \cdot 10^2$	6	$7.6 \cdot 10^1$	7	$-1.9 \cdot 10^8$	8	$2.4 \cdot 10^2$
9	$-3 \cdot 10^4$	10	$-1.4 \cdot 10^3$	11	$9 \cdot 10^9$	12	

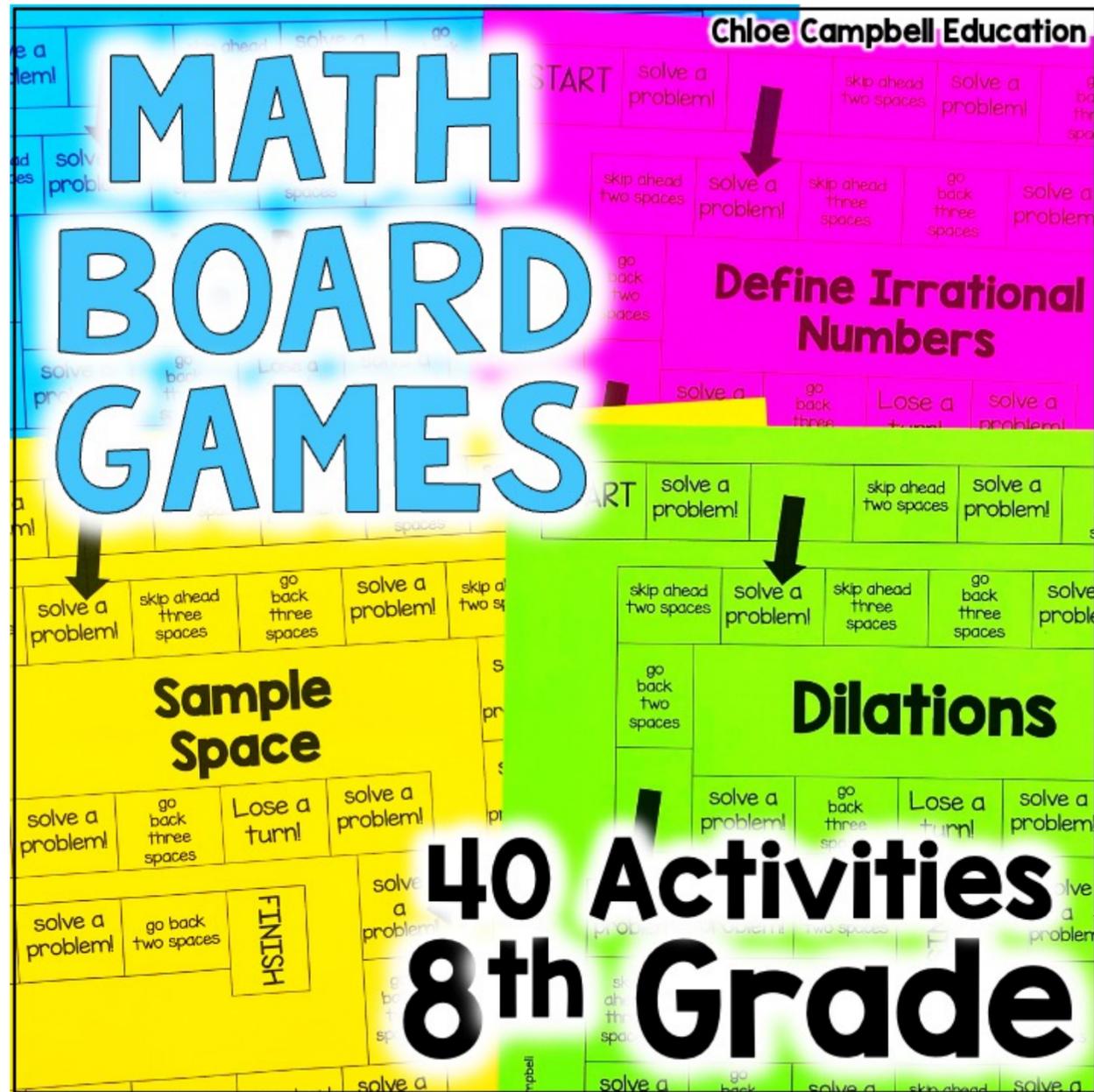
Handwritten problems:

- $(6.7 \cdot 10^6)$
- $(4.6 \cdot 10^6) +$
- $(2.898 \cdot 10^4) \div (6$
- $(4.1 \cdot 10^4) (5.6$
- $(5.04 \cdot 10^8) \div (3.6 \cdot 10$

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