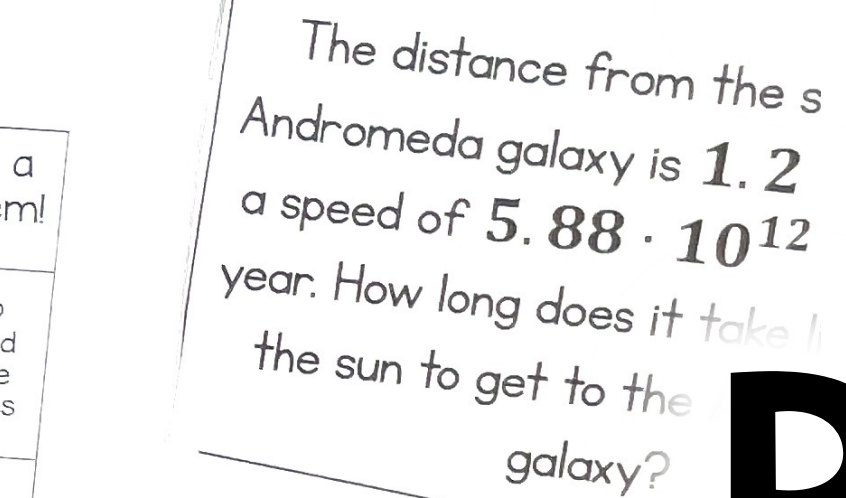


SCROLL
to take a look inside!

to take a look inside!



As part of a community class picked up in a year. If there in the school, how did each

The toy room in
cubic meters. There are
 10^2 toys per cubic meter. How
many toys are present in the toy
room?

Math Skills Included:



6
Scientists discovered that the size of the Antarctic Ocean is $20,330,000 \text{ km}^2$. How big is the Arctic Ocean, if the Arctic Ocean is $\frac{3}{4}$ of the size of the Antarctic Ocean?

2
The distance from the sun to the Andromeda galaxy is $1.2 \cdot 10^{19}$ at a speed of $5.88 \cdot 10^{12}$ miles per year. How long does it take light from the sun to get to the Andromeda galaxy?

3
The mass of the Jupiter is $1.989 \cdot 10^{30}$ kilograms. The mass of the Mercury is $5.98 \cdot 10^{24}$ kilograms. How many times bigger is Jupiter than Mercury?

5
The toy room in the house is 900 cubic meters. There are $1.1 \cdot 10^2$ toys per cubic meter. How many toys are present in the toy room?

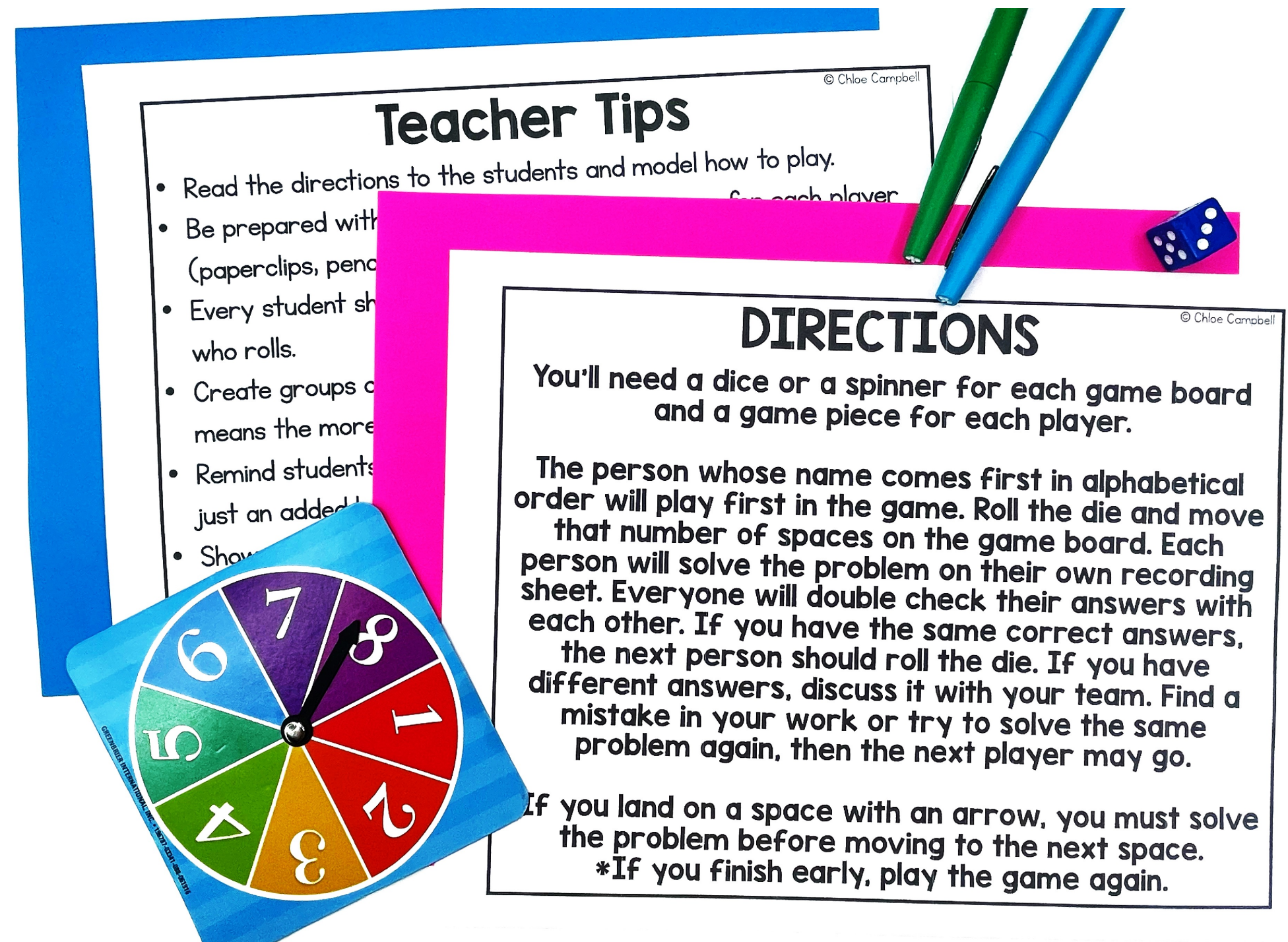
1
As part of a community service project, a class picked up $7 \cdot 10^5$ pieces of garbage in a year. If there are $3.5 \cdot 10^3$ students in the school, how many pieces of garbage did each student pick up?

7
The volume of Lake Bear is approximately $2.56 \cdot 10^5 \text{ km}^3$ and is 20 times the volume of Lake Eagle, what is the volume of Lake Eagle?

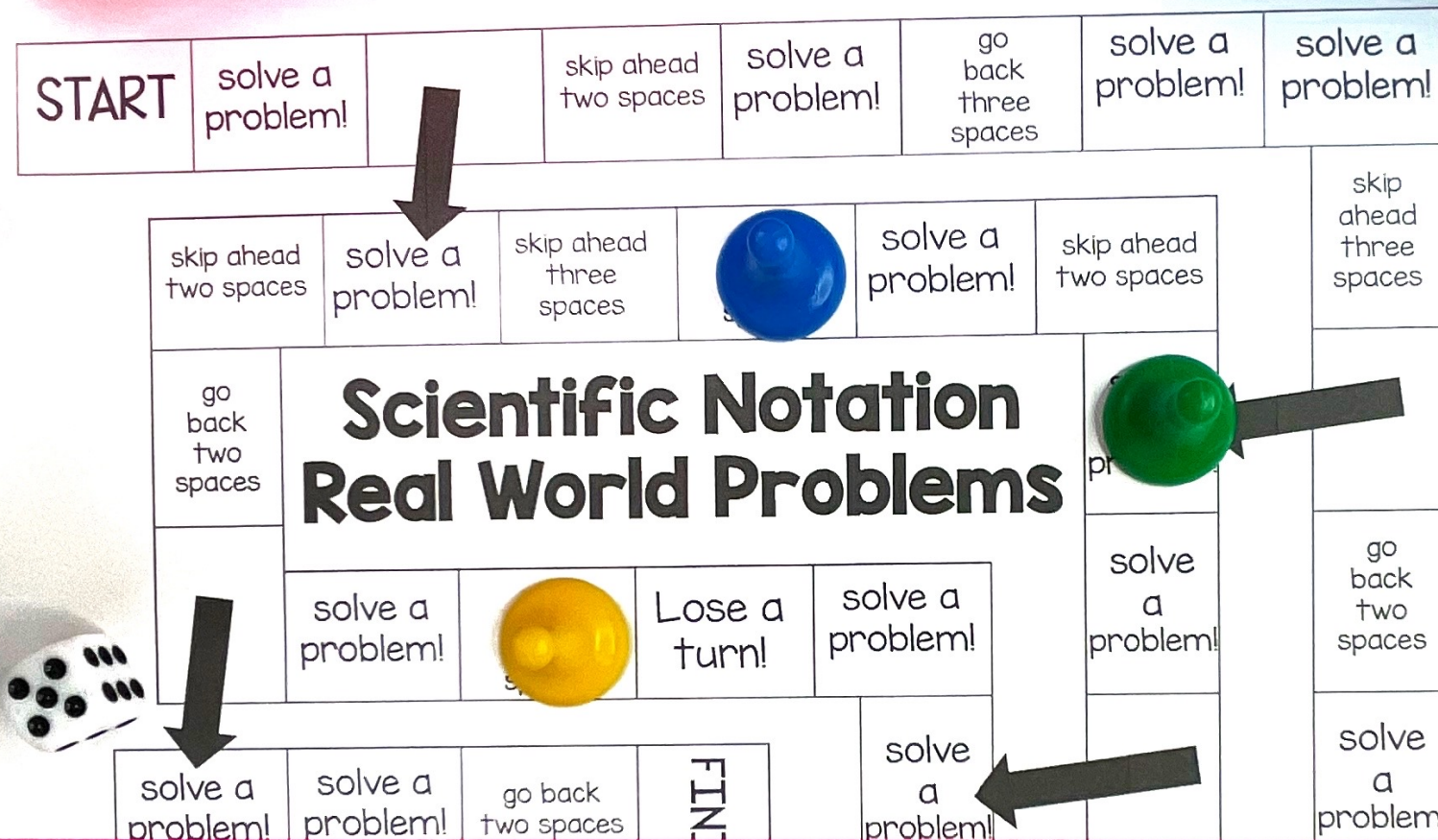
Express numbers in a scientific notation to represent and approximate very large or very small quantities

You'll Receive

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



Student Recording Sheet



Name _____

Scientific Notation Real World Problems Recording Sheet

1 $2 \cdot 10^2$	2 $2.04 \cdot 10^3$	3 $3.326 \cdot 10^5$	4 $4.08 \cdot 10^{12}$
5 $9.9 \cdot 10^4$	6 $1.52475 \cdot 10^6$	7 $1.28 \cdot 10^4$	8 $4.2 \cdot 10^2$
9 $3.39 \cdot 10^9$	10 $5.52 \cdot 10^9$	11 $656597 \cdot 10^6$	12 $5.3472 \cdot 10^8$
13	14	15	16

The distance from Earth to the Andromeda galaxy is about a speed of 25 million miles per year. How long will it take light to travel the sun to the Andromeda galaxy?

galaxy?

As part of a community service project, a class picked up $7 \cdot 10^5$ pieces of garbage in a year. If there are $3.5 \cdot 10^3$ students in the school, how many pieces of garbage did each student pick up?

The toy room in the house has 400 cubic meters. There are $1.1 \cdot 10^2$ toys per cubic meter. How many toys are present in the toy room?

Scientists discovered that the size of the Antares star is about 1,000 times the size of Earth.

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:

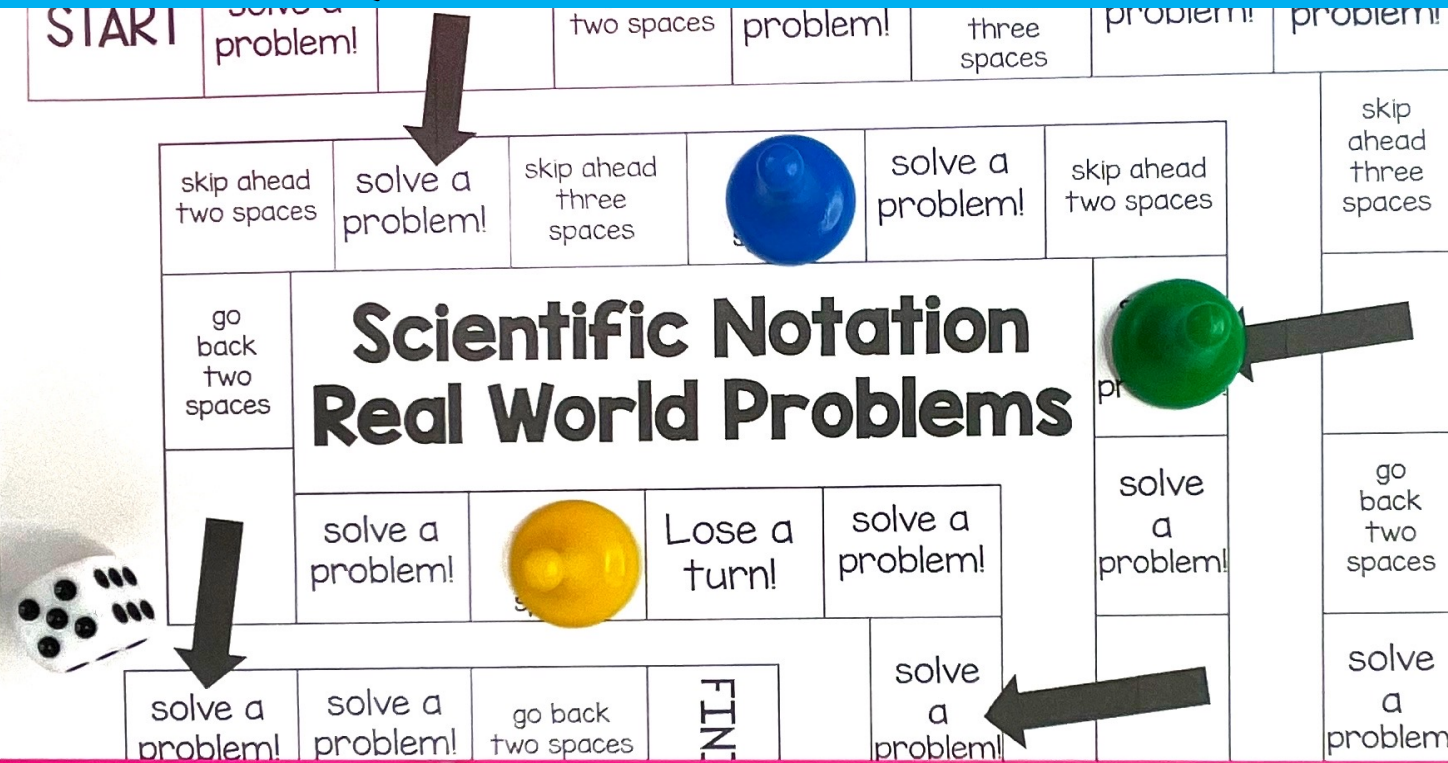
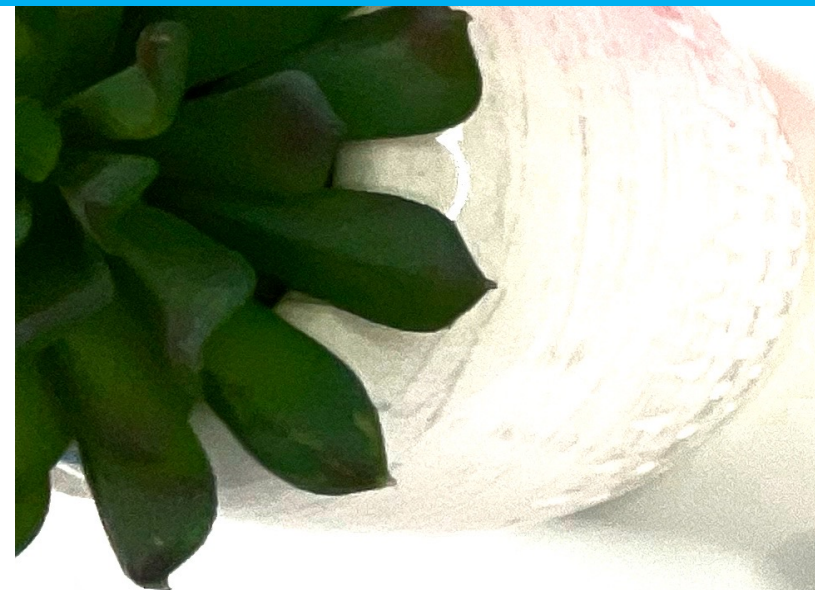
- ★ Remind students that the focus is not playing the game...that's just an added bonus! The focus should be on practicing the math skills.
- ★ Show students how to compare and discuss answers. Did you both get the same answer? If students get different answers, ask them to solve the problem using a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



Name _____

Scientific Notation Real World Problems Recording Sheet

1 $2 \cdot 10^2$	2 $2.04 \cdot 10^3$	3 $3.326 \cdot 10^5$	4 $4.08 \cdot 10^{12}$
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The distance from the sun to the Andromeda galaxy is $1.2 \cdot 10^{19}$ at a speed of $5.88 \cdot 10^{12}$ miles per year. How long does it take light from the sun to get to the Andromeda galaxy?

As part of a community service project, a class picked up $7 \cdot 10^5$ pieces of garbage in a year. If there are $3.5 \cdot 10^3$ students in the school, how many pieces of garbage did each student pick up?

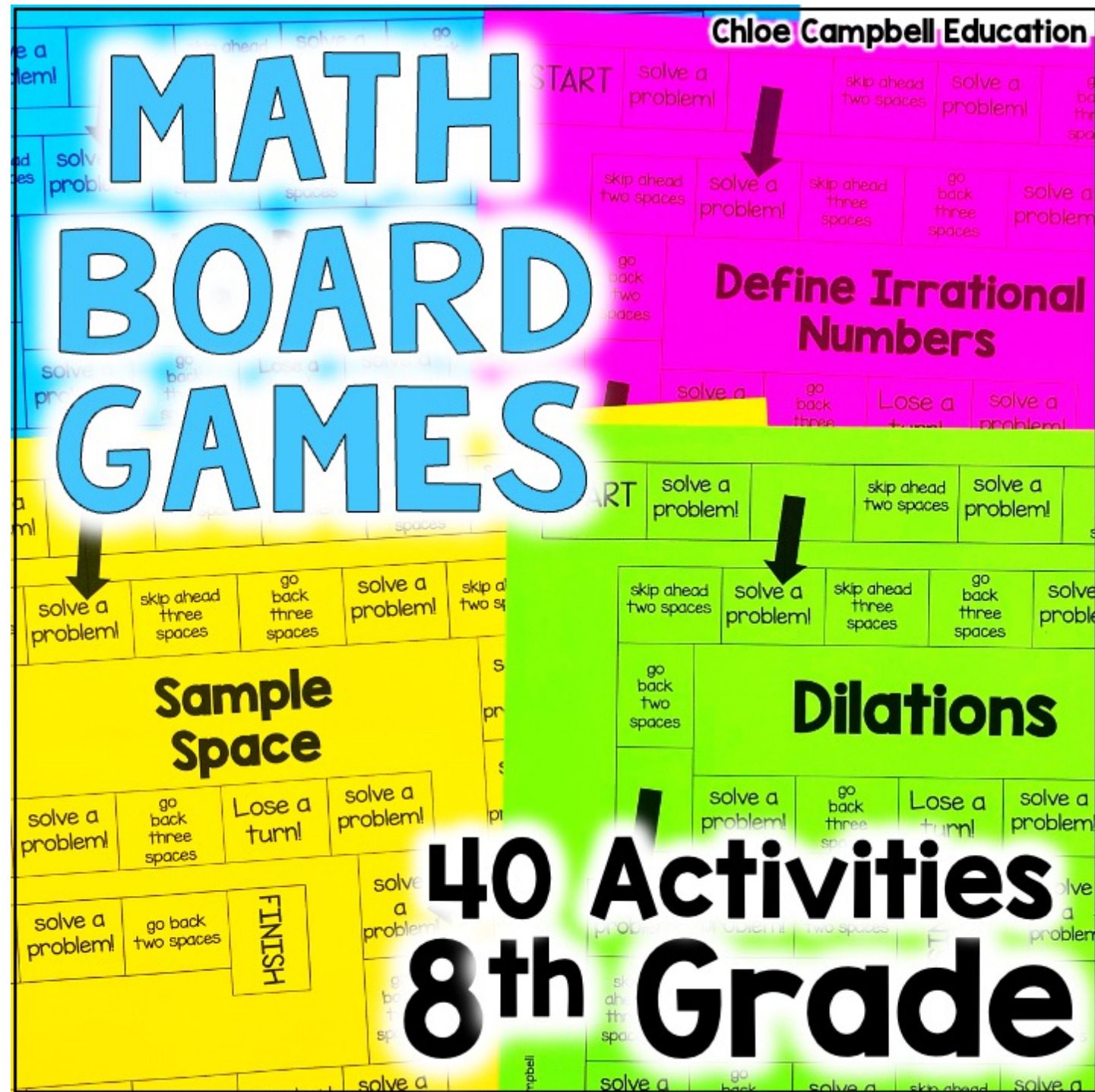
The toy room in the house is 900 cubic meters. There are $1.1 \cdot 10^2$ toys per cubic meter. How many toys are present in the toy room?

Scientists...

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and student
achievement increase!

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Bundle!