

SCROLL
to take a look inside!

Math Skills Included:



20

A restaurant offers milkshakes with different base flavors and mix-ins. The combinations of base flavors and mix-ins are shown in the tree diagram below. Based on the diagram, how many ways can you order a milkshake?

```
graph LR
    lemon --- cookie_dough1[cookie dough]
    lemon --- cherries1[cherries]
    lemon --- MMs1[M&Ms]
    lemon --- marshmallows1[mashmallows]
    lemon --- bacon1[bacon]
    lemon --- peanut_butter1[peanut butter]
    strawberry --- cookie_dough2[cookie dough]
    strawberry --- cherries2[cherries]
    strawberry --- MMs2[M&Ms]
    strawberry --- marshmallows2[mashmallows]
    strawberry --- bacon2[bacon]
    strawberry --- peanut_butter2[peanut butter]
```

4

You are purchasing a pool that comes in different shapes and colors. Based on the sample space diagram below, how many combinations of shapes and colors are there for the pool?

	Circle	Square
Blue	Circle, blue	Square, blue
Black	Circle, black	Square, black
White	Circle, white	Square, white

19

A restaurant offers milkshakes with different base flavors and mix-ins. The combinations of base flavors and mix-ins are shown in the tree diagram below. Based on the diagram, how many ways can you order a milkshake?

```
graph LR
    strawberry --- chips1[chips]
    strawberry --- bacon1[bacon]
    strawberry --- cherries1[cherries]
    lemon --- chips2[chips]
    lemon --- bacon2[bacon]
    lemon --- cherries2[cherries]
    chocolate --- chips3[chips]
    chocolate --- bacon3[bacon]
    chocolate --- cherries3[cherries]
```

1

You are purchasing a table that comes in different shapes and colors. Based on the sample space diagram below, how many combinations of shapes and colors are there for the table?

Color	Shape	Combination
Yellow	Circle	Circle, yellow
Yellow	Rectangle	Rectangle, yellow
Red	Circle	Circle, red
Red	Rectangle	Rectangle, red
Orange	Circle	Circle, orange
Orange	Rectangle	Rectangle, orange

3

You are going to paint a room. There are 3 colors to choose from and 3 finishes to choose from. Based on the sample space list below, how many ways can you paint the room?

Color	Finish
White	eggshell
White	high-gloss
White	matte
Pink	eggshell
Pink	high-gloss
Pink	matte

17

You are going to paint a room. There are 2 colors to choose from and 3 finishes to choose from. Based on the sample space list below, how many ways can you paint the room?

Color	Finish
Gray	eggshell
Gray	high-gloss
Gray	matte
Green	eggshell
Green	high-gloss
Green	matte

Determine the sample space for a repeated experiment

2

You are purchasing a table that comes in different shapes and colors. Based on the sample space diagram below, how many combinations of shapes and colors are there for the table?

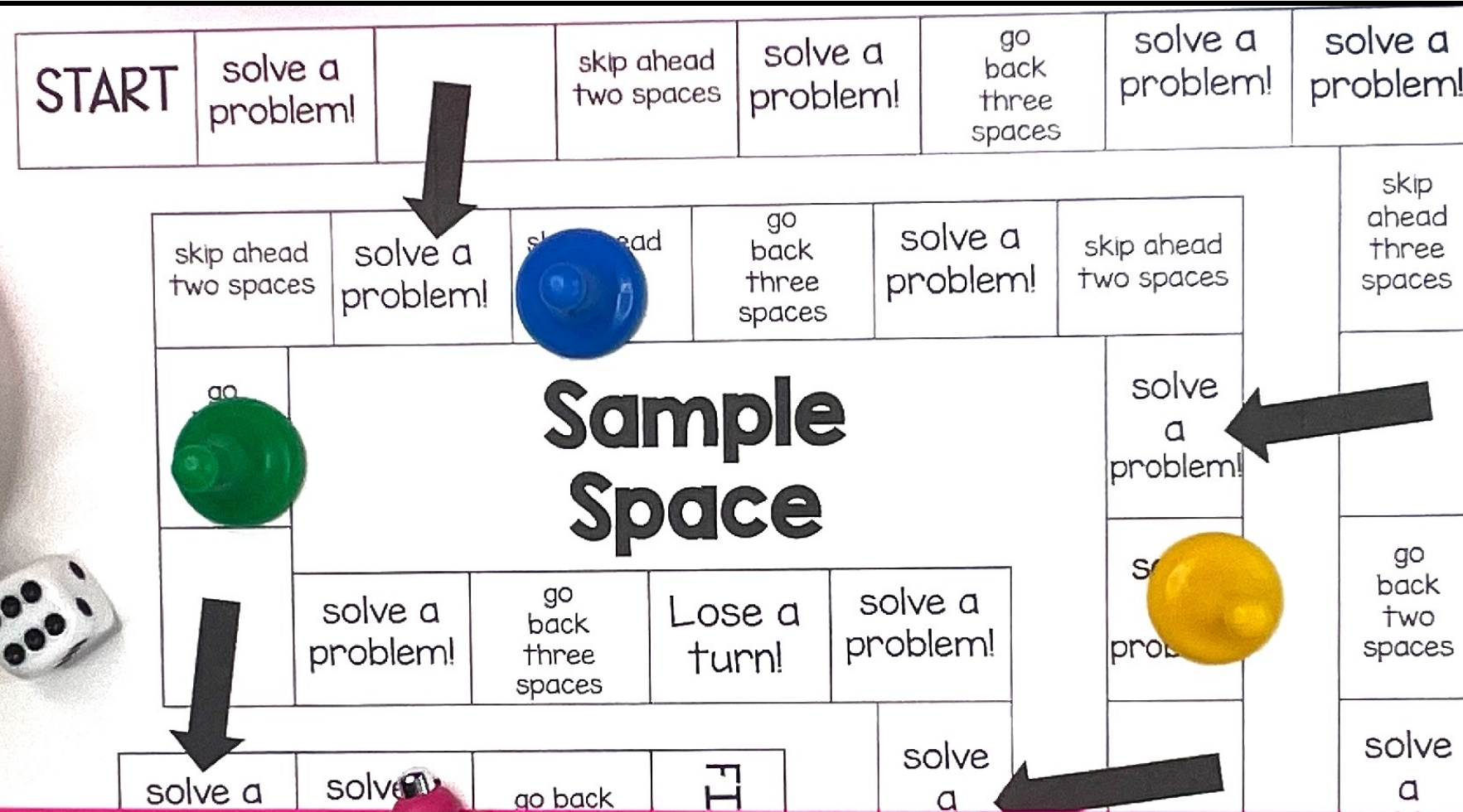
	Circle	Rectangle	Square
Purple	Circle, purple	Rectangle, purple	Square, purple

You'll Receive

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



Student Recording Sheet



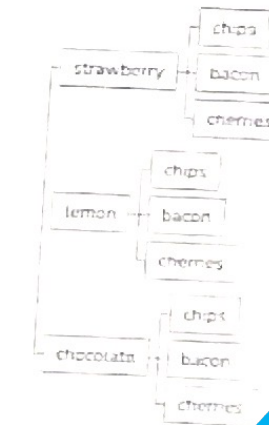
Sample Space

Name: _____

Sample Space Recording Sheet

1 8	2 15	3 9	4 6
5 $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14\}$	6 $\{1, 2, 3, 4, 6, 9, 12, 18, 36\}$	7 $\{1, 2, 3, 4, 5, 6, 7, 8\}$	8 $\{1, 2, 4, 7, 14, 28\}$
9 $\{hh, ht, tt, th\}$	10 $\{bbb, bbg, bgb, bgg, gbb, gbg, ggb, ggg\}$	11 $\{op, pp, po\}$	12 $\{sc, mc, lc, ss, ms, ls\}$
13	14	15	16

The combinations of base flavors and mix-ins are shown in the tree diagram below. Based on the diagram, how many ways can you order a milkshake?



You are purchasing a pool that comes in different shapes and colors. Based on the sample space diagram below, how many combinations of shapes and colors are there for the pool?

	Circle	Square
Blue	Circle, blue	Square, blue
Black	Circle, black	Square, black
White	Circle, white	Square, white

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:

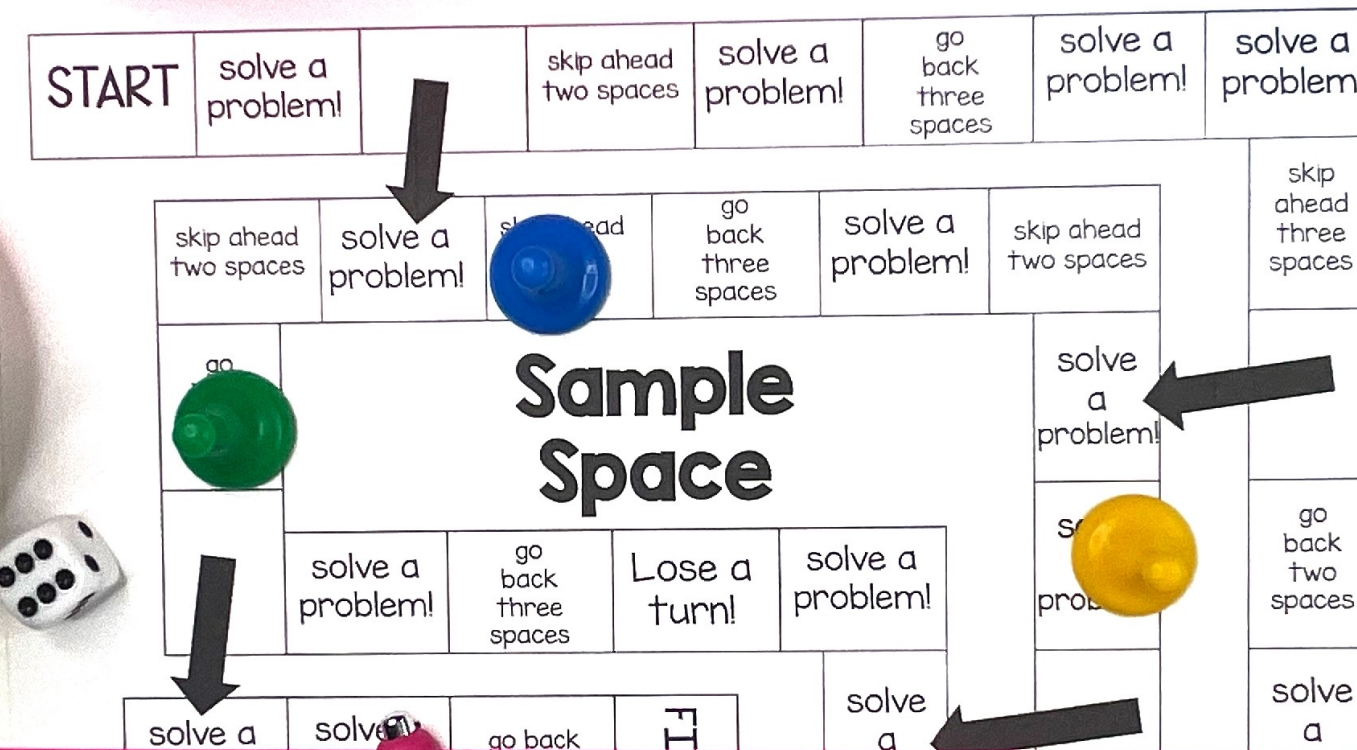
- ★ Remind students that the focus is not playing the game...that's just an added bonus! The focus should be on practicing the math skills.
- ★ Show students how to compare and discuss answers. Did you both get the same answer? If students get different answers, ask them to solve the problem using a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



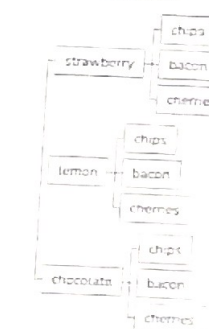
Name: _____

Sample Space Recording Sheet			
1 8	2 15	3 9	4 6
5 $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14\}$	6 $\{1, 2, 3, 4, 6, 9, 12, 18, 36\}$	7 $\{1, 2, 3, 4, 5, 6, 7, 8\}$	8 $\{1, 2, 4, 7, 14, 28\}$
9 $\{hh, ht, tt, th\}$	10 $\{bbb, bbq, bqb, qbb, qbq, qbb\}$	11	12

3 You are going to paint a room. There are 3 colors to choose from and 3 finishes to choose from. Based on the sample space list below, how many ways can you paint the room?

Color	Finish
white	eggshell
white	high-gloss
white	matte
pink	eggshell
pink	high-gloss
pink	matte
purple	eggshell
purple	high-gloss
purple	matte

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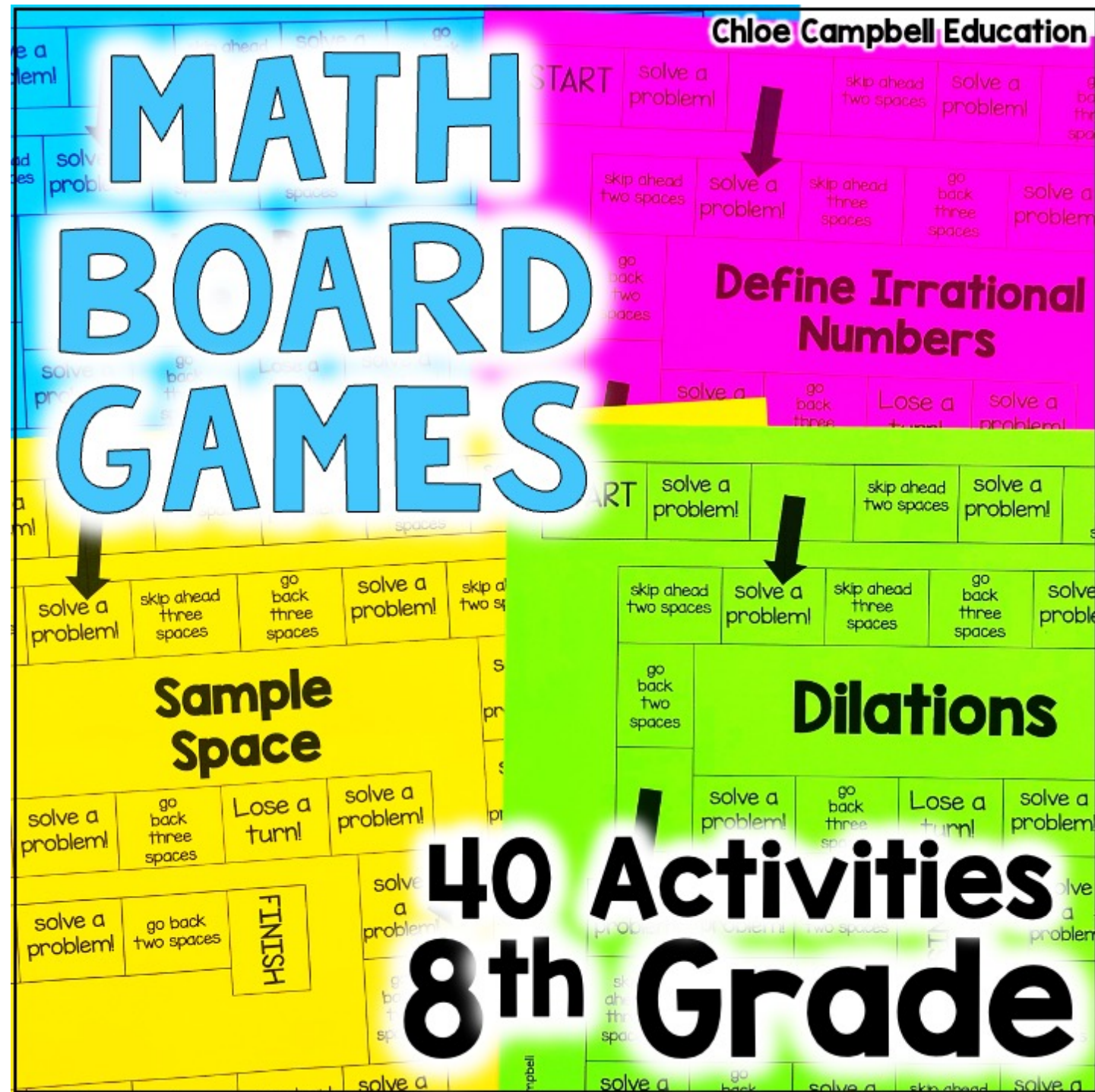
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	Circle	Square
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