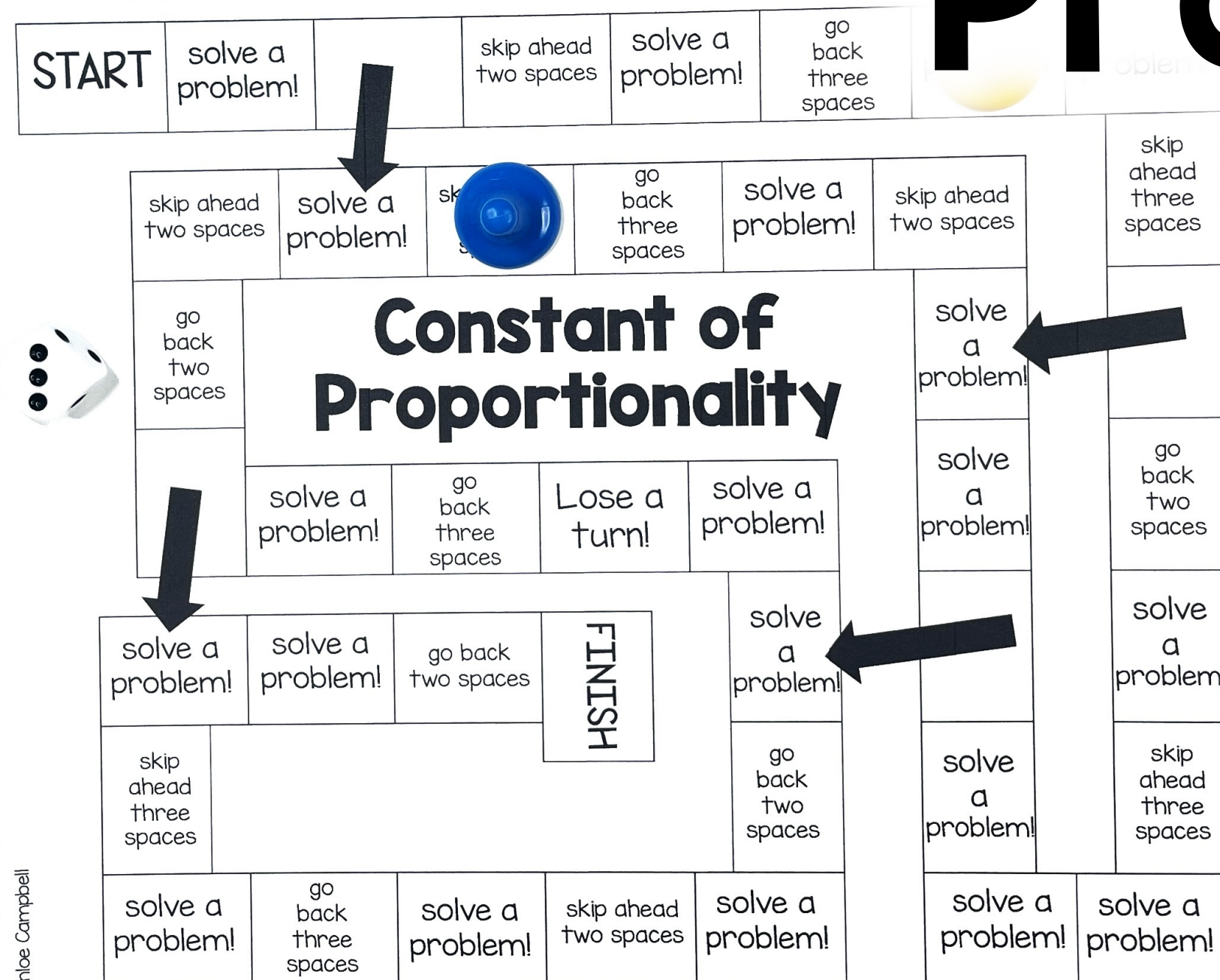


Constant of Proportionality



SCROLL
to take a look inside!

20 Problems Included:



16

The table below shows which type of variation?

x	y
1	$-\frac{3}{5}$
2	$-\frac{6}{5}$
3	$-\frac{9}{5}$
4	$-\frac{12}{5}$
5	-3

9

The equation below is an example of which type of variation?

$$y = \frac{4}{x} - 1$$

5

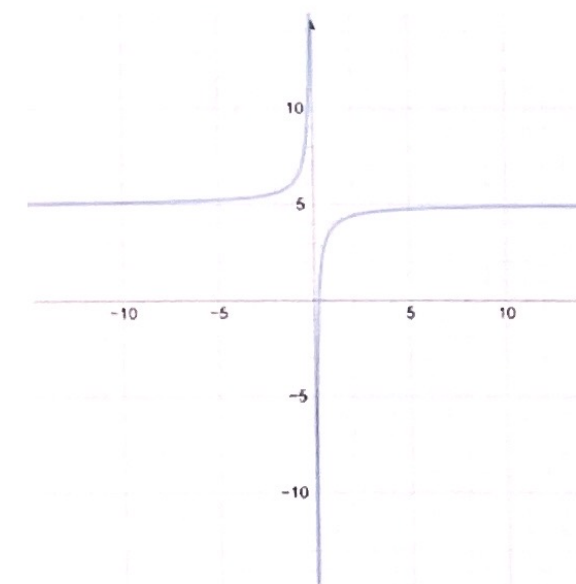
Suppose the b varies inversely with x, and $x = 5$ when $b = 6$. Find x when $b = 23$.

1

Suppose the z varies directly with k, and $k=8$ when $z=16$. Find k when $z = 10$.

14

The graph below is an example of which type of variation?



You'll Receive

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





Constant of Proportionality

go back two spaces	Constant of Proportionality				solve a problem!	
	solve a problem!	go back three spaces	Lose a turn!	solve a problem!	solve a problem!	go back two spaces
solve a problem!	solve a problem!	go back two spaces	FINISH	solve a problem!		solve a problem!

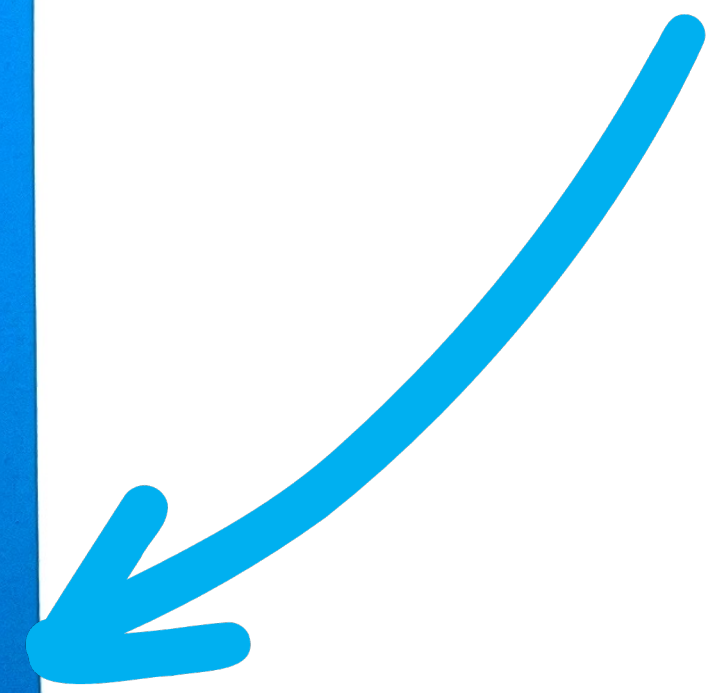
Arrows indicate movement: from top-left to bottom-left, from top-right to top-middle, and from middle-right to middle-middle.

Student Recording Sheet

Name: _____

Constant of Proportionality Recording Sheet

1 5	2 30	3 $\frac{37}{2}$	4 14
5 $\frac{30}{23}$	6 $\frac{42}{11}$	7 $\frac{3}{2}$	8 $\frac{96}{17}$
9 None	10 Inverse Variation	11 Direct Variation	12 Inverse Variation
13	14	15	16



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:

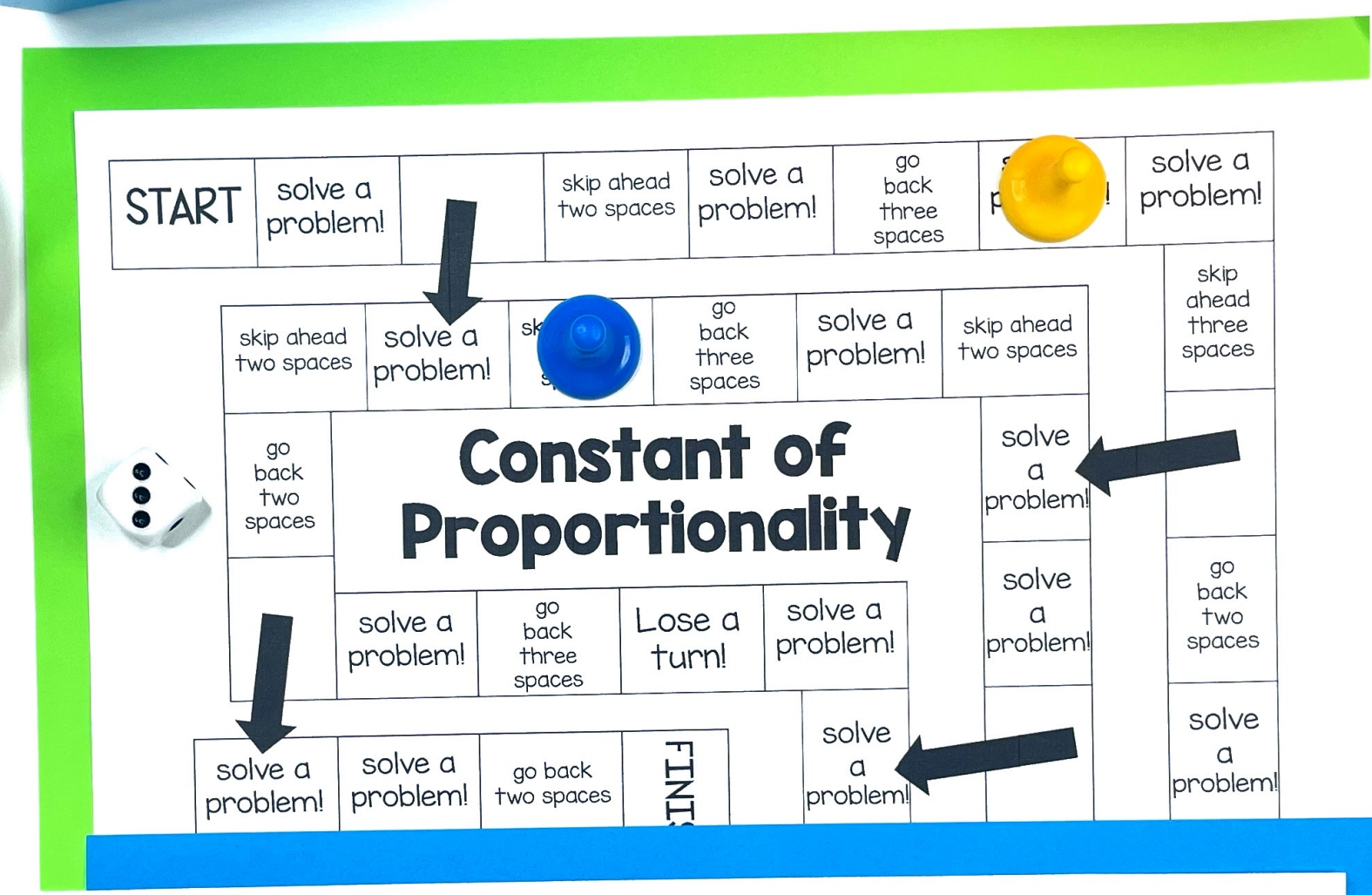
- ★ Remind students that the focus is not playing the game...that's just an added bonus! The focus should be on practicing the math skills.
- ★ Show students how to compare and discuss answers. Did you both get the same answer? If students get different answers, ask them to solve the problem using a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



Constant of Proportionality Recording Sheet

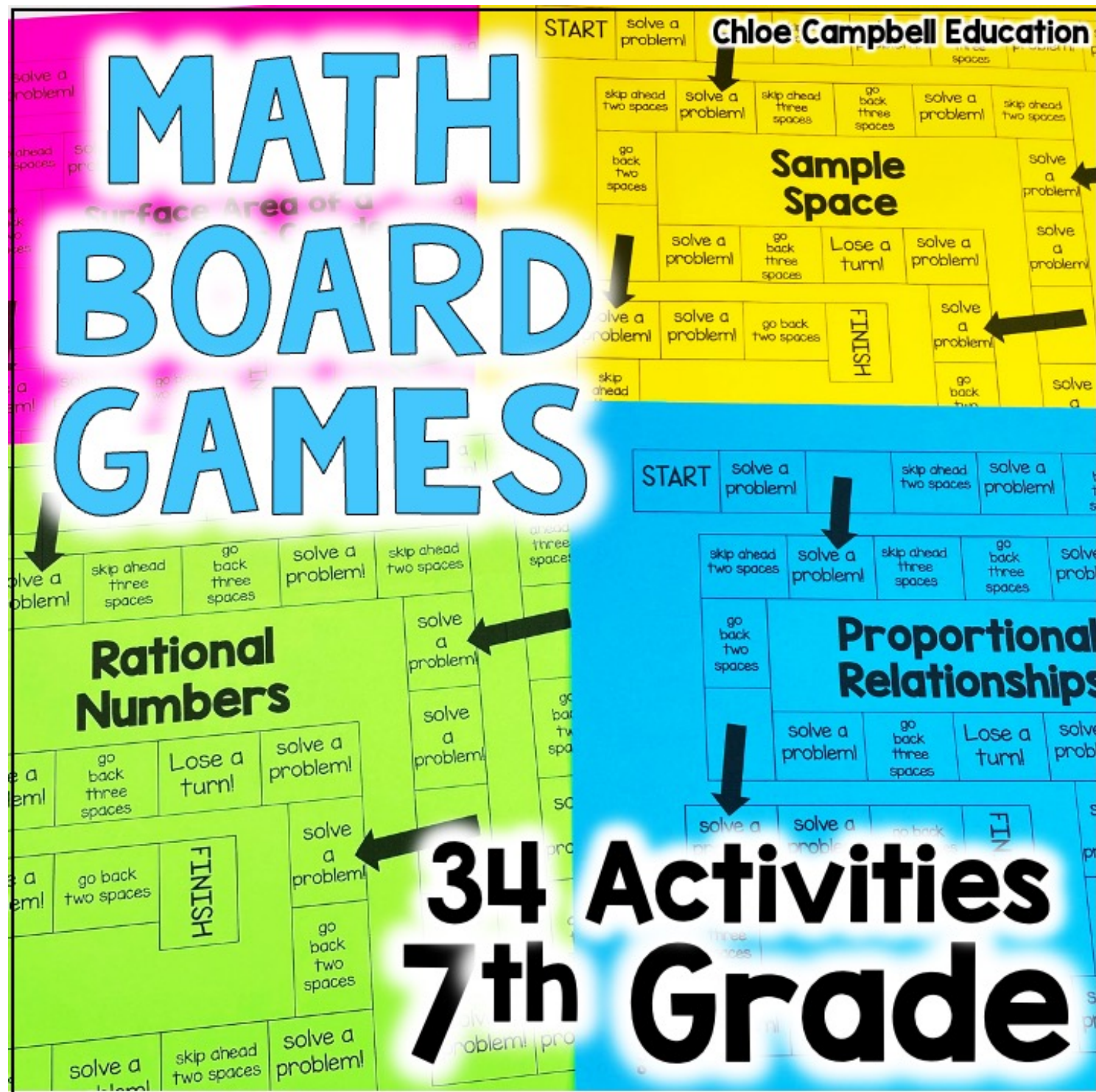
Name: _____

1	5	2	30	3	$\frac{37}{2}$	4	14
5	$\frac{30}{23}$	6	$\frac{42}{11}$	7	$\frac{3}{2}$	8	$\frac{96}{17}$
9	None	10	Inverse Variation	11	Direct Variation	12	Inverse Variation
13		14		15		16	

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