

# PYRAMID SUM Puzzle

THE SLOPE FORMULA Pyramid Sum Puzzle

**R**  
(1, -5) and (-2, -8)

-1

**C**  
(4, 2) and (7, -4)

$\frac{2}{3}$

**L**  
(-2, -1) and (-5, -9)

$\frac{1}{2}$

**I**  
(7, 1) and (1, 9)

$-\frac{1}{3}$

**H**  
(4, 1) and (-8, -1)

$\frac{7}{6}$

**A**  
(-9, -3) and (-3, -5)

$-\frac{3}{2}$

**N**  
(-7, -6) and (-9, -4)

1

**M**  
(-8, 8) and (-2, 5)

$\frac{3}{4}$

4

(-1, 5)

# The SLOPE FORMULA

Created by: ALL THINGS ALGEBRA®

# THE SLOPE FORMULA

## Pyramid Sum Puzzle

**Objective:** To practice finding the slope of the line that passes through two given points using the slope formula. This includes positive, negative, zero, and undefined slopes.

### Activity Directions:

- 1) Print the puzzle pieces and pyramid template for each student (pages 3-4 of this document). I like to do the template on colored paper and the puzzle pieces on white paper to make the final product pop!
- 2) Students find the slope of the line that passes through each given pair of points. They record their answers in simplest form in the boxes. I recommend having students show their work neatly on a notebook sheet of paper, then stapling to their pyramid once completed.
- 3) Students cut the problems out and arrange the top row according to the letters on the template. Then, they arrange the remaining boxes so that each solution is the sum of the two solutions directly above it. **There are 20 problems, however, only 15 will be used on the pyramid template. This was purposely done to create similar answers.**

An answer key is provided on page 5. This assignment is VERY easy to grade with the box letters and solutions!

**THE SLOPE FORMULA** *Pyramid Sum Puzzle*

Directions: Find the slope that passes through each pair of points. Record the slopes in simplest form in the boxes. Cut out the boxes and paste R, C, L, P, and E on the top row on the pyramid template. Paste the remaining boxes so that the slope to each problem is the sum of the two slopes directly above it.

\* FIVE PROBLEMS WILL NOT BE USED ON THE PYRAMID TEMPLATE! \*

<b>A</b> (-9, -3) and (-3, -5) <input type="text"/>	<b>B</b> (-1, -1) and (-5, -7) <input type="text"/>	<b>C</b> (4, 2) and (7, -4) <input type="text"/>	<b>D</b> (4, -3) and (1, -3) <input type="text"/>	<b>E</b> <input type="text"/>
<b>F</b> (-6, 5) and (-2, 2) <input type="text"/>	<b>G</b> (-2, 3) and (-8, -1) <input type="text"/>	<b>H</b> (4, 1) and (-8, -1) <input type="text"/>	<b>I</b> (7, 1) and (1, 1) <input type="text"/>	<b>J</b> <input type="text"/>
<b>K</b> (2, -3) and (-4, -3) <input type="text"/>	<b>L</b> (-2, -1) and (-5, -9) <input type="text"/>	<b>M</b> (-8, 8) and (-2, 5) <input type="text"/>	<b>N</b> (-7, -6) and (1, -6) <input type="text"/>	<b>O</b> <input type="text"/>
<b>P</b> (1, -4) and (-3, 6) <input type="text"/>	<b>Q</b> (-2, 7) and (-10, 5) <input type="text"/>	<b>R</b> (1, -5) and (-2, -8) <input type="text"/>	<b>S</b> (-1, 2) and (1, 2) <input type="text"/>	<b>T</b> <input type="text"/>

**THE SLOPE FORMULA** *Pyramid Sum Puzzle* Name: \_\_\_\_\_

<b>R</b>	<b>C</b>	<b>L</b>	<b>P</b>	<b>E</b>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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