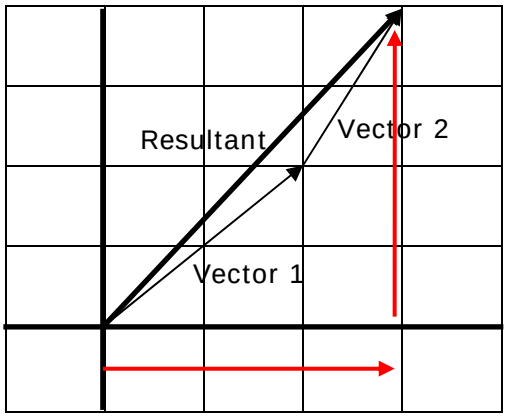
Name _____ Date _____

Adding Vectors End to End - Guided Lesson Explanation

Explanation#1

Step 1) First, you have to find the sum of each pair of vectors.

Step 2)



Step 3) Count the number of blocks covered by two vectors.

x = 3 y = 4

Step 4) To find the resultant vector's magnitude, use the Pythagorean Theorem.

$a^2 + b^2 = c^2$

The resultant is:

$x^2 + y^2 = r^2$

$3^2 + 4^2 = r^2$

$r = \sqrt{3^2 + 4^2}$

r = 5

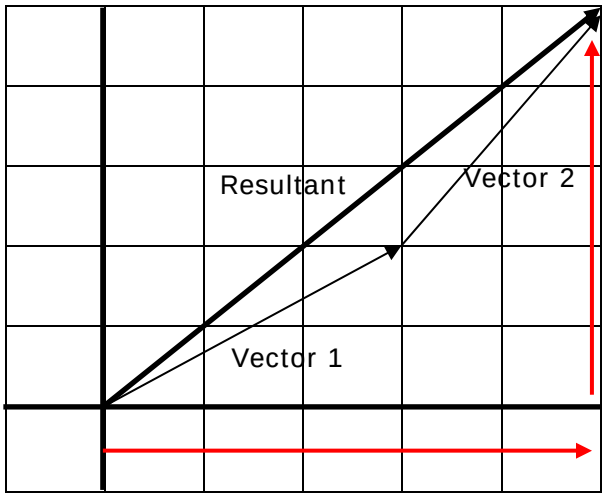
Name _____ Date _____

Explanation # 2

Step 1) First, you have to see what is being asked.

"Find the sum of each pair of vectors."

Step 2)



Step 3) Count the number of blocks covered by two vectors.

x = 5 y = 5

Step 4) To find the resultant vector's magnitude, use the Pythagorean Theorem.

$a^2 + b^2 = c^2$

The resultant is:

$x^2 + y^2 = r^2$

$5^2 + 5^2 = r^2$

$r = \sqrt{5^2 + 5^2}$

r = 7.07

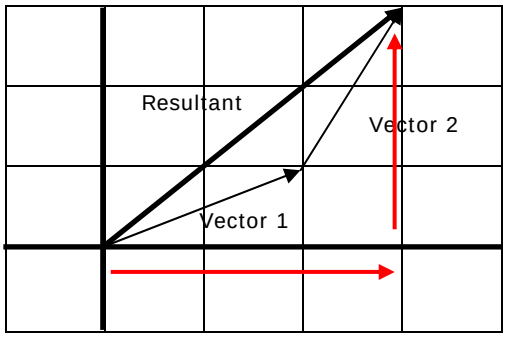
Name _____ Date _____

Explanation # 3

Step 1) First, you have to see what is being asked.

“Find the sum of each pair of vectors.”

Step 2)



Step 3) Count the number of blocks covered by two vectors.

x = 3 y = 3

Step 4) To find the resultant vector's magnitude, use the Pythagorean Theorem.

$a^2 + b^2 = c^2$

The resultant is:

$x^2 + y^2 = r^2$

$3^2 + 3^2 = r^2$

$r = \sqrt{3^2 + 3^2}$

r = 4.24