

Name _____
Honors Physics
Period _____




Date _____
Vector/Projectiles WS #5H
Mrs. Nadworny

(12 pts)

Vector Components

Directions – Read textbook pages 88 – 96. Solve the following problem using the graphical (scale) method and mathematical method we've learned. Show all of your work in the space provided.

1. Into how many possible components can a single vector be resolved?
A) one B) two C) three D) unlimited
2. Which combination of three concurrent vectors could not produce a resultant of 0 N?
A) 4 N, 6 N, 9 N B) 3 N, 3 N, 3 N C) 2 N, 1 N, 5 N D) 7 N, 3 N, 4 N
3. Fido's owner applies a 75.0 N force on the leash at a 40.0° angle to the horizon. What are the vertical and horizontal components of the force?

Scale Method	Mathematical Method
<p>*Redraw the vector. Picture is not to scale*</p> 	

Answers in size order: 48.2, 57.5