The Work in GREEN is required. The work in PURPLE is helpful hints.

THE WOLK III TOM SO	.1		
Name	Date_	18 N	
Honors Physics		Vector/Projectiles WS #5H	
Period		Mrs. Nadworny	
(12 pts) Vector Components			
Directions – Read textbook pages 88 – 96. Solve the following method and mathematical method we've learned. Show all of y	our woi	rk in the space provided.	
1. Into how many possible components can a single vector be	resolve	d?	

two C) three Twe choose 2 so we can use trig 2. Which combination of three concurrent vectors could not produce a resultant of 0 N? Add 2 smoller #5,

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 larger # for R=0N

A) one

3. Fido's owner applies a 75.0 N force on the leash at a 40.00 angle to the horizon. What are the vertical and horizontal components of the force?

Scale Method	Mathematical Method	
Redraw the vector. Picture is not to scale CM = 7.5N Ty	$F_{x} = F_{cos} \Theta$ $= 75.0 \text{N} \cos 40.0^{\circ}$ $= 75.0 \text{N} \cos 40.0^{\circ}$ = 57.5 N left $F_{z} = 75.0 \text{N}$ $\Theta = 40.0^{\circ}$ $F_{x} = ?$ $= 75.0 \text{N} \sin 40.0^{\circ}$ $F_{y} = ?$ = 48.2 N up	
In clude direction 40.0 Fx 7.60 cm	 need givens + unknowns 2 equations 2 sub wounits 2 answers sigfiged Include direction 	