

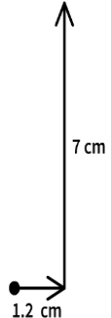
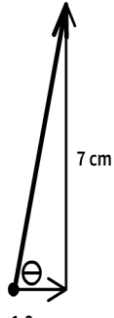
Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

**Paper Vector Lab: Tear out and use the ruler here (not to scale) and use it for your measurements**

**Include an origin dot and all your direction arrows on your vectors**

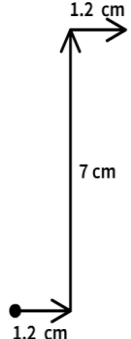

**Single X and Single Y Vector Problem (Finish off #3-#6)**

**1. Go 1.2 cm east, then 7cm north**

<p>#1 Draw and label the sides</p> 	<p>#2 Draw in the resultant the vector diagram with resultant drawn in</p> 	<p>#3 Solve for the resultant magnitude</p> <p>#4 Solve for the resultant angle</p> <p>#5 Give a complete resultant answer (magnitude, angle, and description of angle)</p>	<p>#6 Measure the resultant magnitude using the same measuring tool (cutout or a ruler but keep it the same)</p> <p>Measured Value: (number and unit)</p>
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**Multiple X and Y Vector Problems (Finish off #3-#6)**

**2. Go 1.2 cm east, then 7 cm north, then 1.2 cm east**

<p>#1 Draw and label the sides</p> 	<p>#2 Redraw a right triangle with all combined <b>X components together first</b> and combined <b>Y components second</b> and draw in the resultant</p> 	<p>#3 Solve for the resultant magnitude</p> <p>#4 Solve for the resultant angle</p> <p>#5 Give a complete resultant answer (magnitude, angle, and description of angle)</p>	<p>#6 Measure the resultant magnitude using the same measuring tool (cutout or a ruler but keep it the same)</p> <p>Measured Value: (number and unit)</p>
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**3. Go 4 cm west, then 5 cm north (Complete all parts including drawing the vector diagrams)**

<p>#1 Draw and label the sides</p>	<p>#2 Redraw a right triangle</p>	<p>#3 Solve for the resultant magnitude</p> <p>#4 Solve for the resultant angle</p> <p>#5 Give a complete resultant answer (magnitude, angle, and description of angle)</p>	<p>#6 Measure the resultant magnitude using the same measuring tool (cutout or a ruler but keep it the same)</p> <p>Measured Value: (number and unit)</p>
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<b>#4 Go 2 cm west, then 5 cm north, then 6 cm east (Complete all parts including drawing the vector diagrams)</b>			
#1 Draw and label the sides	#2 Redraw a right triangle	#3 Solve for the resultant magnitude  #4 Solve for the resultant angle  #5 Give a complete resultant	#6 Resultant Magnitude  Measured Value: (number and unit)
<b>#5 Go 6 cm west, then 2 cm south, then 2.5 cm east (Complete all parts including drawing the vector diagrams)</b>			
#1 Draw and label the sides	#2 Redraw a right triangle	#3 Solve for the resultant magnitude  #4 Solve for the resultant angle  #5 Give a complete resultant	#6 Resultant Magnitude  Measured Value: (number and unit)
<b>#6 Go 2 cm north, then 3 cm north, then 3 cm east, then 1 cm east (Complete all parts including drawing the vector diagrams)</b>			
#1 Draw and label the sides	#2 Redraw a right triangle	#3 Solve for the resultant magnitude  #4 Solve for the resultant angle  #5 Give a complete resultant	#6 Resultant Magnitude  Measured Value: (number and unit)
<b>#7 Go 1 cm east, then 4 cm west, then 2 cm north, then 3 cm north (Complete all parts including drawing the vector diagrams)</b>			
#1 Draw and label the sides	#2 Redraw a right triangle	#3 Solve for the resultant magnitude  #4 Solve for the resultant angle  #5 Give a complete resultant	#6 Resultant Magnitude  Measured Value: (number and unit)