Name_

2	Give two examples of vector quantities:
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3.	quantities have magnitude only. Magnitude is express
	by a
4.	Vector quantities have and
5.	Vectors may be represented by, with the magnitude
	shown by the
6.	One vector having the same effect as two or more vectors combined is a
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1. What is the resultant of two component vectors of 78.3 units W and 15.2 units N?

2. An airplane flies southward with a velocity of 922 km/h. There is a brisk tailwind (meaning blowing on the tail of the plane) with a velocity of 25 km/h. What is the resultant velocity of the plane?

- 3. Calculate the components of a resultant vector of 804 units, 17° W of S.
- 4. A person can row a boat 6.93 km/h in still water. If the person rows directly west across a river that flows north at 5.00 km/h, what is the magnitude and direction of the resultant velocity?

Use the head-to-tail method to solve the following:

 A car travels 150 km east before turning and traveling 275 km north. What is the car's displacement?





 A student walks 15 paces West then 7 paces South then 8 paces East and finally 5 paces North. What is the resultant from the start to the finish?