

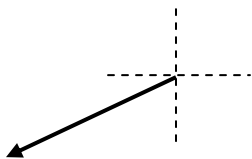
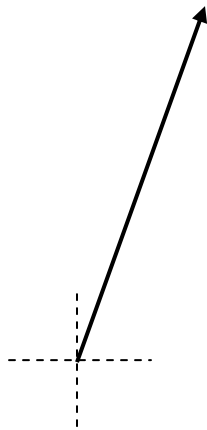
Adding Vectors: Distance/Speed vs. Displacement/Velocity

Name: _____ Date: _____

- Show all work, all units, label the vectors. Use the most suitable method (either algebra or vectors)

Understanding Directions & Scales with Vectors

SCALE: 1 cm = 150 km



- Aidan drives her mustang convertible 150 km [N] to talk to Christine. She talks with Tara for a while and then travels 250 km [E] to meet with another friend and then travels 100 km [S20°E] to get home. Calculate her resultant displacement and total distance travelled.

4. Laura walks her friend's pet lizard 800 m [E] in 1 hour. She then decides to walk 400 m [S] for 0.5 hours. She then walks 100 m [W30°N] for 1 hour. Calculate her average speed and velocity.