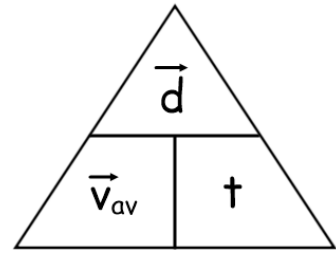


# Intro to Vectors Worksheet

## (Extra Practice)



- For each of the following statements about vector and scalar quantities, identify the true statements. If a statement is false, provide a brief explanation as to why.
  - A vector is a large quantity and a scalar is a small quantity.
  - A scalar quantity has a magnitude and a vector quantity does not.
  - A vector quantity is given with a direction and a scalar quantity is not.
  - Time is a vector quantity.
  - The quantity 20 m/s [N] is a velocity and is therefore a vector quantity.
- If you walk 2 kilometers to school, then 2 kilometers home because you forgot your homework, then 2 kilometers back to school, your total distance travelled is \_\_\_\_\_ but your displacement is only \_\_\_\_\_. This is because \_\_\_\_\_ (distance, displacement) is a quantity where direction does not matter (a \_\_\_\_\_ quantity) while \_\_\_\_\_ (distance, displacement) is a quantity where direction does matter (a \_\_\_\_\_ quantity).
- A golfer is trying to put a golf ball into the hole at the Hartland Golf Club. The ball starts 5.0m south of the hole and after the golfer puts the ball it ends up 1.2m north of the hole. What was the displacement of the golfer's put?
- If it takes Madisen 18.8s to swim 50.0m [N], what is her average velocity?
- On the New Brunswick Trail, the Muise family goes for a walk. They walk at a velocity of 3.8 km/h [E] for 4200 seconds. How far did they walk?