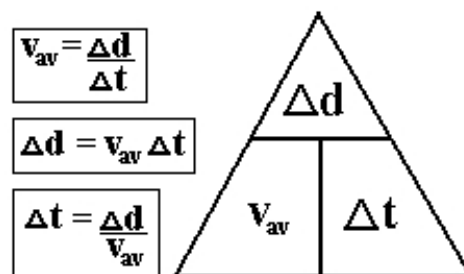**Worksheet 15: Calculating Average Speed, Distance, and Time**

Use the average speed equation to calculate the unknown variable. Ask yourself, "What is this question asking me to find?" before you begin your calculation. Remember that "v_{av}" represents speed, "$\triangle d$" represents distance, and "$\triangle t$" represents time.

$$v_{av} = \frac{\triangle d}{\triangle t}$$

$$\triangle d = v_{av} \, \triangle t$$

$$\triangle t = \frac{\triangle d}{v_{av}}$$

1. Calculate the average speed of a car that travels 70 km in 1.5 hours.

2. How long does it take a person running at a rate of 4 m/s to run a distance of 260 m?

3. How far would a snowmobiler travel in 0.5 hours at a rate of 25 km/h?

4. Melanie ran the 100 meter race in 12 seconds. What was her average speed?

5. If a boat sailed for 6 hours at an average speed of 55 km/h, what distance did the boat travel?

6. How much time did it take a plane flying at 575 km/h to travel a distance of 1700 km?