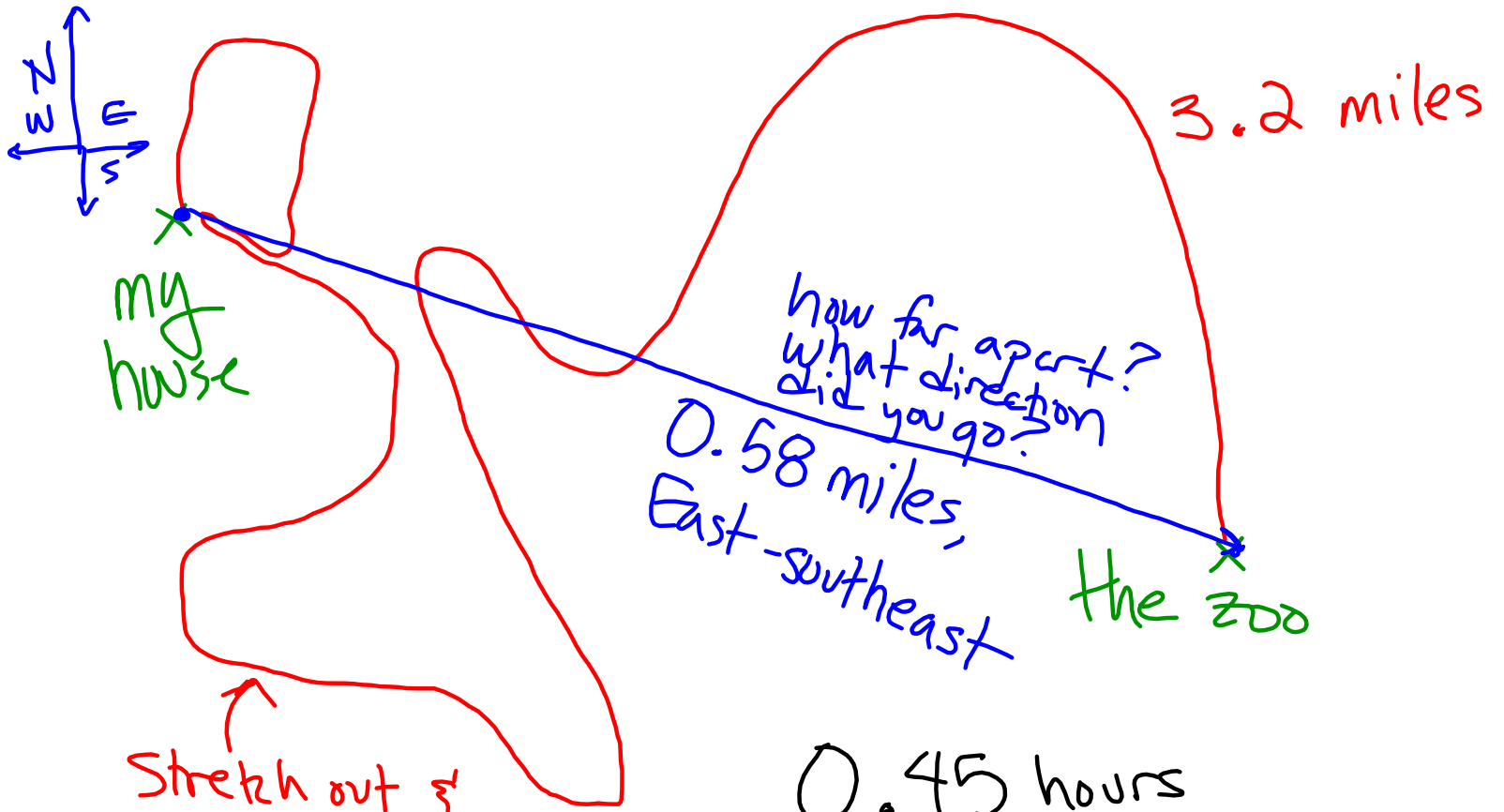
Velocity:

- It measures how fast something moves
- Only concerned with where something is relative to where it started ("displacement")



0.45 hours

Speed = 7.1 mph

Velocity = 1.29 mph ESE

$$\text{Velocity} = \frac{\text{displacement}}{\text{time}} \quad (\text{include direction})$$

$$v = \frac{d}{t}$$

ex) Monkey has a velocity of 4.1 $\frac{ft}{s}$ North. He goes 75 feet. How long did it take?

$$v = \frac{d}{t}$$

$$t \cdot 4.1 = \frac{75}{t} \cdot t$$

$$\frac{4.1t}{4.1} = \frac{75}{4.1}$$

$$t = 18.29\ s$$

* FOR DISPLACEMENT & VELOCITY: INCLUDE DIRECTION