THE FIVE STEPS: SOLVING WORD PROBLEMS

Solving word problems can be tricky sometimes.

The Five Steps give us a place to start.

Remembering Speed:

	Definition	Variable
Distance Travelled:	-A CHANGE IN POSITION -A LENGTH UNITS: FEET, METERS, CM, LUCHES,	A
Speed	-THE RATE AT WHICH YOUR POSITION CHANGE UNITS: MILES HR METERS SEC	WEST
	<u>KILOMETERS</u> HOUR	

Remembering Speed:

	Definition	Variable
Distance Travelled:	A CHANGE IN POSITION, A LENGTH UNITS: METERS, INCHES, FEET, MILES, ETC	d
Speed	THE RATE AT WHICH YOUR Position Changes	5
	UNITS: METERS/SEC MILES/HR	

SPEED = DISTANCE TIME

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

THE FIVE STEPS:

- 1a. Write down what you know (the numbers) and assign to one of your variables (v, d, or t).
- 1b. Write down the variable you are looking for.
- 2. Write down the formula that you will use to solve the problem. (v = d/t)
- 3. Plug in the variables you know from Step 1a.
- 4. Solve for the variable you are looking for. Be sure to include the proper units.
- 5. Check your work. Use your answer and one of your givens to see if you get the other given.

EXAMPLE: A turtle is turtling down the street with a

$$d = ?$$

$$(2)$$
 $\sqrt{2}$

$$4.1 = 2221$$

$$\frac{m}{5ec} = \frac{9}{5ec}$$

(4)
$$2221 \times 4.1 = \frac{d}{2221} \times (2221)$$

$$\frac{9106.1 \, m}{2221 \, \text{sec}} = 4.1$$

EXAMPLE: A turtle is turtling down the street with a

1a)
$$V = 4.1 \text{ m/s}, t = 2,221 \text{ SEC}$$

2)
$$v = \frac{d}{t}$$

3)
$$4.1 = \frac{d}{2221}$$

4)
$$2221 \times (4.1) = 22/21 \times (\frac{d}{22/21})$$

$$2221 \times 4.1 = d$$
 $9,106.1 \, m = d$

5)
$$V = \frac{9106.1 \text{ m}}{2.221.5} = 4.1 \% \sqrt{\frac{17 \text{ WORKS}}{2.221.5}}$$

