

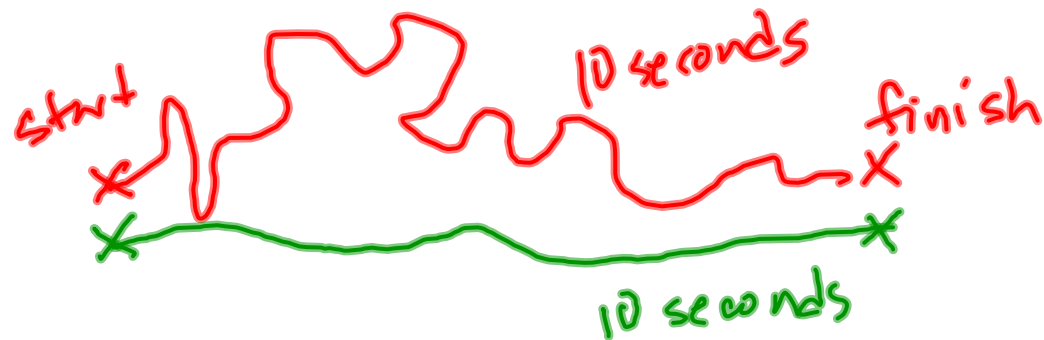
11/24/09 - Speed & Distance

- Concepts
- Mathematical problems
- Derby races

Distance is: how far something moves—
the direction it takes doesn't matter,
and it doesn't have to be in a
straight line



Speed is how quickly something travels a certain distance.



red was faster - it went a greater distance in the same amount of time.

speed = distance \div time

$$S = d \div t$$

distance = 6 feet

time = 4 seconds

$$S = d \div t$$

$$= 6 \text{ feet} \div 4 \text{ seconds}$$

$$= 1.5 \text{ feet per second}$$

THE FIVE STEPS:

1. Identify & list the information given to you in the problem
2. Identify the information you're trying to find
3. Write the equation you'll use (if you know table)
4. Substitute and solve
5. Write the answer - WITH UNITS!

Speed Problems

- ① 1. $d = 12$ blocks, $t = 17$ seconds
2. s
3. $s = d \div t$
4. $s = 12 \text{ blocks} \div 17 \text{ seconds}$
 $= 0.7058823$
 $= 0.71$
5. $s = 0.71$ blocks per second