

Dimensional Analysis
Day 1

Name _____
Block _____

<p>1. A cheetah ran 300 feet in 2.92 seconds. What was the cheetah's speed in miles per hour?</p>	<p>2. A sloth travel 0.15 miles per hour. Convert this speed to feet per minute.</p>
<p>3. According to the Guinness Book of World Records, the peregrine falcon has a record diving speed diving of 168 miles per hour. Write this speed in feet per second.</p>	<p>4. Coach Graves runs through the woods at 2 miles per hour. What is this in inches per minute?</p>
<p>5. Mrs. Holt Zumba's at a rate of 16 feet per hour. How long is that in seconds?</p>	<p>6. Nick flies down the hallway getting Duncan in trouble at a rate of 55 miles per hour. What is Nick's speed in inches per minute?</p>
<p>7. UK Football runs through 2 gallons of soft drinks every 5 minutes. How many pints do they run through each hour?</p>	<p>8. A hose fills up a pool at a rate of 3 gallons per minute. How many quarts is this per day?</p>

Dimensional Analysis

<p>1. A zebra ran 600 feet in 3.51 seconds. What was the zebra's speed in miles per hour?</p>	<p>2. A monkey travels 5 miles per hour. Convert this speed to feet per minute.</p>
<p>3. Convert 6450 mg to g.</p>	<p>4. Coach Wilson runs through the jungle at 12 miles per hour. What is this in inches per minute?</p>
<p>5. While bird watching, Hannah travels at a rate of 25 feet per hour. How fast does she travel in feet per second?</p>	<p>6. Convert 74.7 cm to meters.</p>
<p>7. The HCHS Football team drinks 10 quarts of water every 15 minutes. How many gallons do they drink each hour?</p>	<p>8. Convert 9 days to hours.</p>

Name _____

Jabberwocky

Nonsense words taken from the poem *Jabberwocky* (from Lewis Carroll's *Through the Looking Glass*)

There are 20 tumtum trees in the tulgey wood.

In each tulgey wood is one frumious Bandersnatch.

There are 5 slithy toves in 2 borogoves.

There are 2 mome raths per Jabberwock.

There are 2 Jubjub birds in 200 tumtum trees.

There are 200 mome raths in each borogove.

There are 5 Jubjub birds per slithy tove.

If there are 5 frumious Bandersnatches, how many Jabberwocks should there be?

HINT: What is your "given" info (other than conversion factors)? Use this to start the set up. Show your work.

After you finish the problem above and check your answer, try this one:

A spaceship from another planet travels at a speed of 4.27 googs per mulm. There are 256 googs in a plotz and 12.3 plotz in a wraslm. If 3.4 tpocks equal one mulm, what is the ship's speed in wraslm per tpock? Show your work. In this case, assume numbers with decimal places are measured but whole numbers are exact (we'll pretend that "googs" are creatures!)