Scientist: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

**Conversions**

**Assessment Sept 7/8**

Answer each question while showing all your work. Conversion ratios that may be needed are on the back.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| $$\frac{meters}{second}$$ | $$\frac{mile }{meters }$$ | $$\frac{seconds}{minute }$$ | $$\frac{ minutes }{hour}$$ | $$\frac{( )}{( ) }$$ |  |

=

1)

2) How many miles will a person run during a 10 km race?

|  |  |  |
| --- | --- | --- |
| $$\frac{ 10 km }{}$$ | $$\frac{ miles}{ }$$ | $$\frac{ miles}{ }$$ |

3) 4 gallons is the same as how pints?

4) 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?**

5) If a car is traveling 30 miles/hour, how fast are they going in feet/second?

1000 meters = 1 kilometer (Km)

5280 feet = 1 mile

12 inches = 1 foot

1 mile = 1.6 Km

1000 grams = 1 Kilogram (Kg)

1 pound = .4 Kilogram (Kg)

1 pound = 453 grams (g)

60 seconds = 1 minute

60 minutes = 1 hour

24 hours = 1 day

1 year = 365 days

1 gallon = 4 quarts

1 cup = 16 tablespoons

2 cups = 1 pint

1 quart = 2 pints