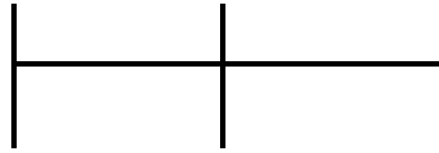
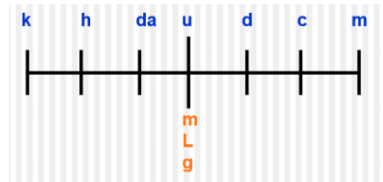


• RECALL:

Ex 1: Convert 5 miles to feet.



Ex 2: Convert 50 kg to grams

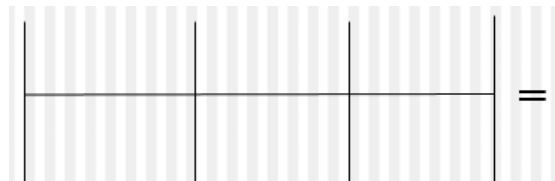


▪ Converting Rates

Rate - Ratio that compares quantities in _____ measures.

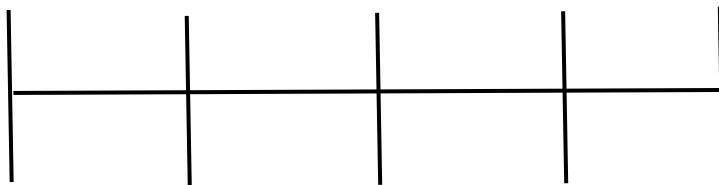
Ex 3: Convert 60 miles per hour to feet per minute.

60 mph = _____ ft/min



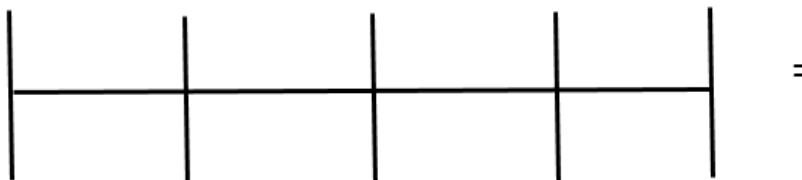
Ex 4: What is the highway speed limit of 65 mph in ft/sec?

65 mph = _____ ft/sec

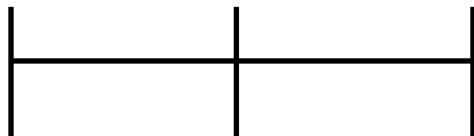


Try these on your own.

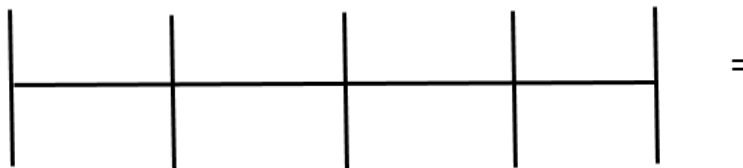
Ex 5: The fastest recorded speed for an eastern gray kangaroo is 40 miles per hour. What is the kangaroo's speed in feet per second? _____ mph = _____ ft/sec



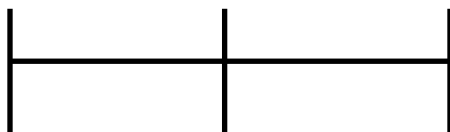
Ex 6: A school copy machine can make 4,500 copies every hour. At this rate, how many copies can it make per minute?



Ex 7: Greg's car is traveling 66 ft/sec. How many miles per hour is Greg driving?



Ex 8: I plan to work at my job 40 hours each week. At this rate, how many hours will I work in one year?



▪ Converting Metric to English and English to Metric

| | | <u>Conversion Factor</u> |
|-------|------|--------------------------|
| fl oz | ↔ mL | 29.58 |
| gal | ↔ L | 3.79 |
| in | ↔ cm | 2.54 |
| m | ↔ ft | 3.28 |
| mi | ↔ km | 1.61 |
| oz | ↔ g | 28.35 |
| kg | ↔ lb | 2.20 |



_____ by conversion factor



_____ by conversion factor

In class examples:

Use the chart to convert these units. Show your work.

1. 16 in = _____ cm

2. 345 lb = _____ kg

3. 450 km = _____ mi

4. 1,200 mL = _____ fl oz

5. 40 m = _____ ft

6. 4 gal = _____ L

7. Penny has a pencil that is 19 cm long. How long is the pencil in inches?

8. Macho Mike can lift 200 kg with ease. How much is this weight in pounds?

9. The distance between Athens and Atlanta is 65 miles. How far is this in kilometers?