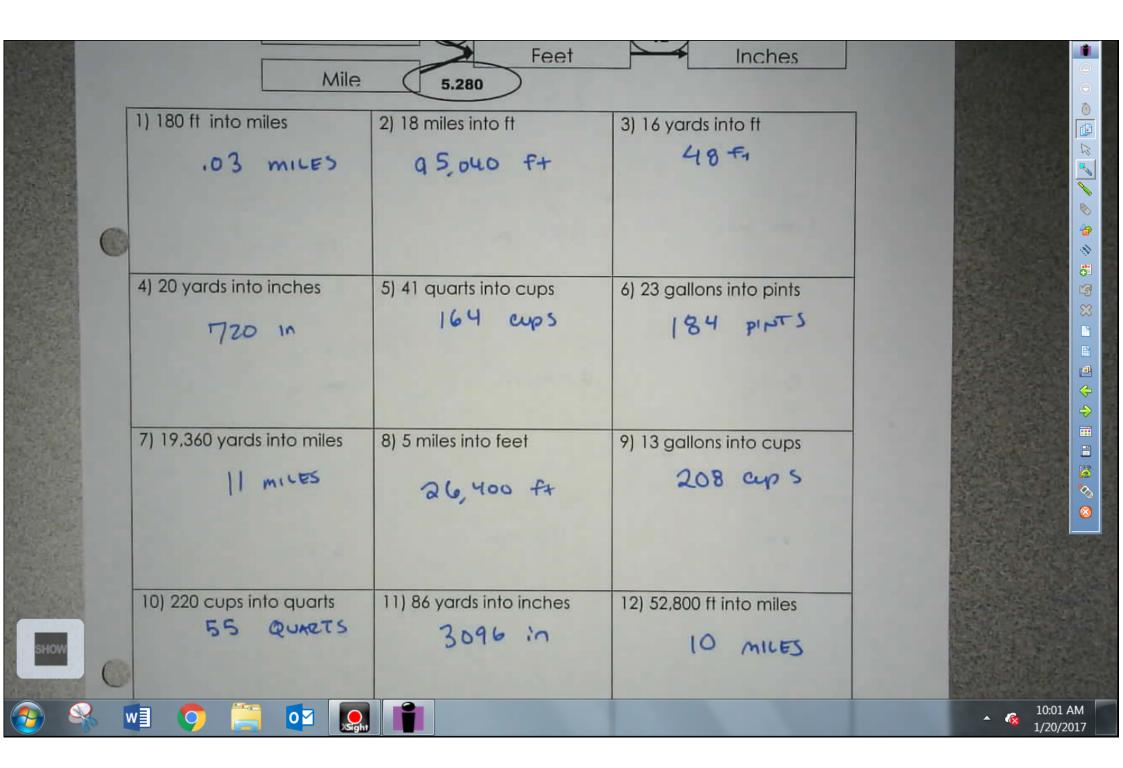
#### versions #4

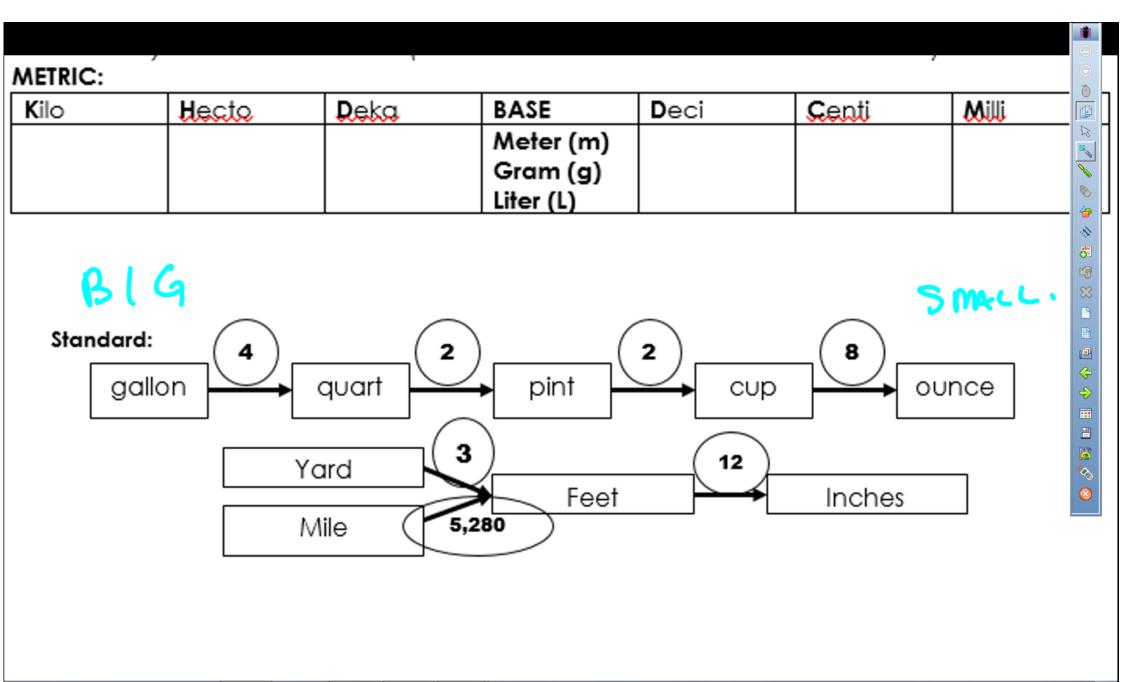
- 1) A pool is filling up at a rate of 24 gallons per minute. If the pool is 12,000 gallons how many minutes will it take to fill up?
  - 500 minutes
- 2) For the same pool as above, how many hours will it take?

$$\frac{500}{60} = 8.3$$
 hours

3) Convert 15 mph into feet per hour.



	13) 84 ft into yards	14) 126 cups into pints	15) 108 pints into quarts		
SHOW	28 YARDS	63 PINTS	54 QUARTS	0	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
	16) 5 m into cm	17) 2 cm into mm	18) 3,000 g into kg 3 ∠ g		
	19) 60 mm into cm	20) 3000mL into L	21) 2,000 g into kg 2 g		
	22) 1 Linto mL	23) 2 m into cm 200 cm	24) 10 cm into mm		
	25) 5,000 ml into L	26) 8 km into m	27) 9 kg into g 4 ∞ 5		
	28) 1,000 m into km	29) 7 cm into mm 70 mm	30) 300 cm into m		
<u>→ % wi</u> (					↑ 10:01 AM 1/20/2017























#### **EXAMPLE 1: ENGLISH TO ENGLISH**

Bob studied for 2.5 hours. How many minutes did he study

for?

2.5 Hours × 60 MINUTES = (150 MINUTES

NO UNIT?









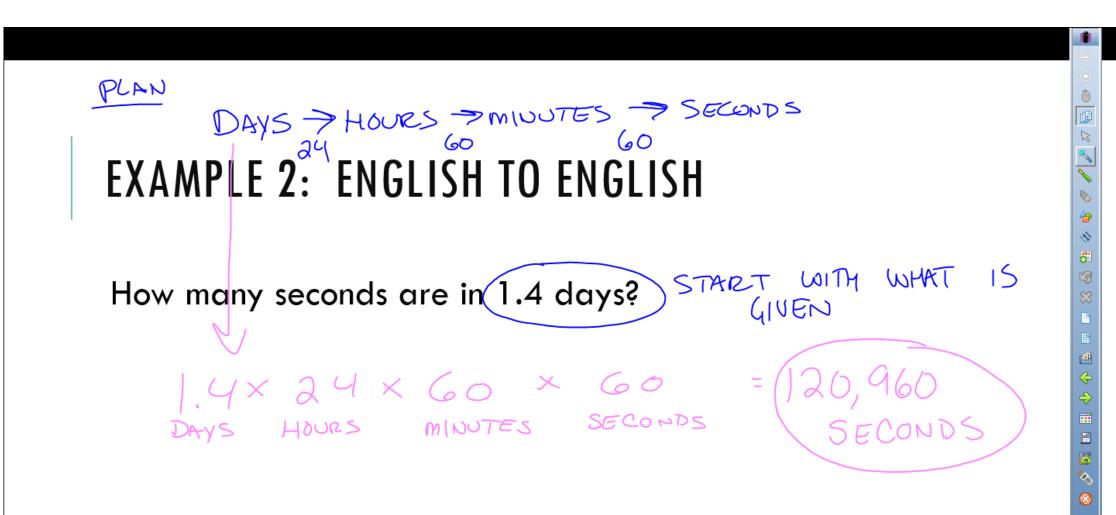
































### EXAMPLE 3: METRIC TO METRIC

KHDBDCM

A rattlesnake is 2.44,m long. How long is the snake in cm?

MOVE TWO SPOTS TO

244 cm



















#### **EXAMPLE 4: METRIC TO METRIC**

KHDB)DCM

On a metric test, Erica mistakenly computed an answer as being 0.048 kl. The answer should be written in ml. How many milliliters are in 0.048 kiloliters?



START AT KL MOVE TO ML























If a ski pole is 3 feet in length, how long is the ski pole in

mm? (Hint: 2.54 cm = 1 inch)

3 ++ × 12 inches × 2.54 cm = 91.44 cm = 914.4 mm





















## PLAN: Km => MILES

#### **EXAMPLE 6: METRIC TO ENGLISH**

Every year the New York City Marathon, which is 42 km long, is run by thousands of people. How many miles are in 42 km? Round to the nearest hundredth. (Hint: 1 km = .62 miles)

GIVEN

42 Km × . 62 mILES = 26.04 MILES





















HOURS 600 MINUTES 60 SECONDS

#### **EXAMPLE 7: RATE**

A cyclist travels 56 miles in 4 hours.

a. How fast is the cyclist traveling in feet per second?

GIVEN 56 MILES × 5280 F+ = 295,680 F+

4 HOURS X 60 MINUTES X 60 SECONDS = 14, 400 SECONDS

B. How many feet will he travel in 100 seconds?















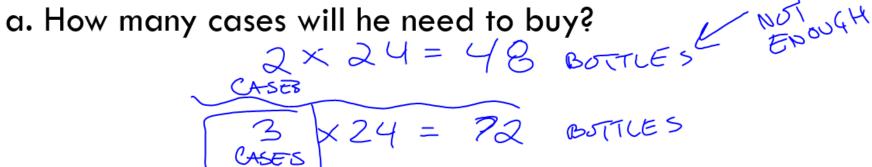






#### **EXAMPLE 8: COST ANALYSIS**

Coach is buying Gatorade for the football team. He has 51 players and he wants each one to have their own bottle. Gatorade comes in cases of 24 for \$12.35



b. How much will he spend on all of the Gatorade?



















# EXAMPLE 9: USING CONVERSIONS TO FIND TOTALS

You went to Costco and bought a gallon of Mio to flavor your water with. If you use 0.5 ml of Mio in each water bottle you drink, how many bottles of water will you be able to flavor?

1 GALLON × 3.79L = 3.796, -> mc 3,790 mL

3790 mL = 7,580 BOTTLES



















#### EXAMPLE 10: USING CONVERSIONS TO FIND TOTALS

A local seamstress is making bows for the cheerleaders. Each bow requires 15 inches of ribbon. There are 24 cheerleaders, how many FEET of ribbon will she need?























