

## EXACT-NESS OF MEASUREMENT WORKSHEET

1. Explain why this cannot be accurate: "I weigh exactly 142 pounds."
2. If my scale weight to the nearest pound, what weights are possible and still have the scale read 142 pounds?
3. If my scale weight to the nearest half-pound, what weights are possible and still have the scale read 142 pounds?
4. If my scale weight to the nearest quarter-pound, what weights are possible and still have the scale read 142 pounds?
5. Person A and person B both measure a piece of wood. Person A says it measures 30 inches, person B says that it measures  $2 \frac{1}{2}$  feet. Find the interval of possible lengths of the piece of wood for both person A and person B. Which measurement was more accurate?

## MATH 210 - WARMUP 2

Convert:

1. 1 m = \_\_\_\_\_ km (meters to kilometers)
2. 1 hg = \_\_\_\_\_ dg (hectograms to decigrams)
3. 5 mm = \_\_\_\_\_ dm (millimeters to decimeters)
4. 6.87 km = \_\_\_\_\_ dam (kilometers to dekameters)
5. 0.84 hl = \_\_\_\_\_ cl (hectoliters to centiliters)
6. 564 mg = \_\_\_\_\_ kg (milligrams to kilograms)
7. 564 kg = \_\_\_\_\_ mg (kilograms to milligrams)
8. 98.76 dm = \_\_\_\_\_ cm (decimeters to centimeters)
9. 0.0092 hl = \_\_\_\_\_ dal (hectoliters to dekaliters)
10. 56.8 mm = \_\_\_\_\_ hm (millimeters to hectometers)

# Did You Hear About . . .

A	B	C	D	E	F	G	H
I	J	K	L	M	N	O	P

## DIRECTIONS:

Write the appropriate number in the blank in any exercise below. Find this number in one of the answer columns and notice the word next to it. Write this word in the box that has the same letter as that exercise.

**KEEP WORKING AND YOU WILL HEAR ABOUT SOMETHING CINEMATIC!**



- 0.01—DOING
- 43.2—WANTED
- 78,000—TRUCK
- 8.9—HEAD
- 250—THE
- 280—MOVIE
- 6490—BETTER
- 0.0649—BIG
- 432—A
- 0.09—ALTHOUGH
- 0.89—WHO
- 7,800,000—PARTS
- 10—THE
- 0.02—ENDED

- 25—DOOR
- 2500—HORSE
- 200—BECAME
- 900—BUT
- 6.49—A
- 0.001—UP
- 780—A
- 707—LAUGH
- 2800—STAR
- 70,700—BE
- 0.432—JUMPED
- 7.8—BIT
- 43,200—TO
- 0.28—ELEPHANT

- A 2.5 m = \_\_\_\_\_ cm
- B 2.5 m = \_\_\_\_\_ mm
- C 890 m = \_\_\_\_\_ km
- D 4320 cm = \_\_\_\_\_ m
- E 4320 cm = \_\_\_\_\_ mm
- F 70.7 km = \_\_\_\_\_ m
- G 64.9 mm = \_\_\_\_\_ cm
- H 64.9 mm = \_\_\_\_\_ m
- I 0.0028 km = \_\_\_\_\_ cm
- J 0.0028 km = \_\_\_\_\_ mm
- K 90 cm = \_\_\_\_\_ mm
- L 0.2 mm = \_\_\_\_\_ cm
- M 1000 mm = \_\_\_\_\_ km
- N 1000 cm = \_\_\_\_\_ km
- O 7800 m = \_\_\_\_\_ km
- P 7800 km = \_\_\_\_\_ m

## Conversion metric system to English system

1 yard = 0.9144 m

1 foot =  $\frac{1}{3}$  yd. = 0.3048 m = approx. 30.5 cm

1 inch =  $\frac{1}{12}$  foot =  $\frac{1}{36}$  yard = 0.0254 m = 2.54 cm

1 mile = 5280 ft. = 1760 yards = 1609.344 m = approx. 1.6 km

1 fluid oz = 30 ml = 28 g

1 pound = 454 g = 0.454 kg

1 cup = 235 ml

1 pint = 2 cups = 470 ml

1 quart = 4 cups = 0.95 l (liters)

1 gallon = 4 quarts = 3.8 l