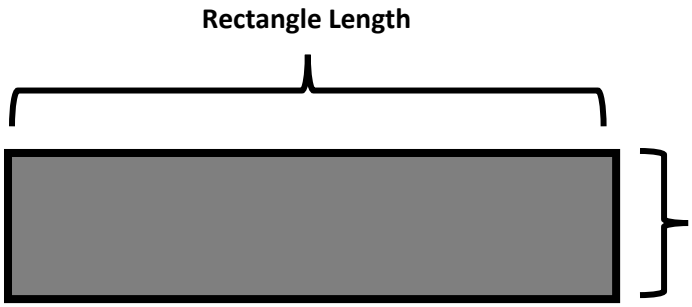
BASIS header:

Making Measurements Activity (100 points)

USE THE METRIC RULER TO MAKE THE FOLLOWING MEASUREMENTS (1 point each):

Length of the line in mm _____

Length of the line in cm _____

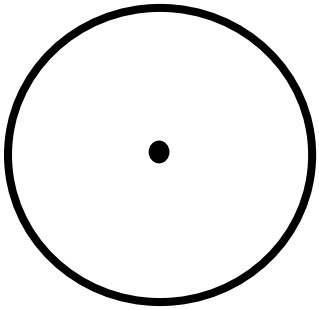


Length of the rectangle in mm _____

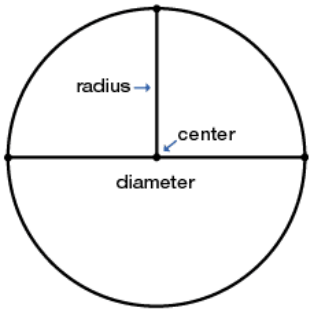
Length of the rectangle in cm _____

Width of the rectangle in mm _____

Width of the rectangle in cm _____



HINT! These are the parts of a circle:

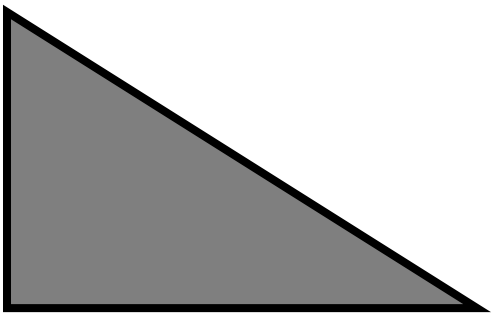


Radius of the circle in mm _____

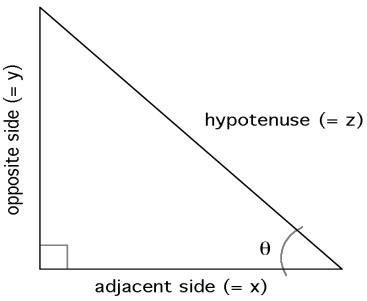
Radius of the circle in cm _____

Diameter of the circle in mm _____

Diameter of the circle in cm _____



HINT! These are the sides of a right triangle:



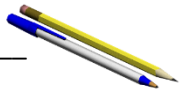
Length of the hypotenuse in mm _____ Length of the hypotenuse in cm _____

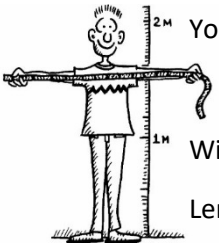
Length of the opposite in mm _____ Length of the opposite in cm _____

Length of the adjacent in mm _____ Length of the adjacent in cm _____

USE THE METRIC RULER TO MAKE THE FOLLOWING MEASUREMENTS IN YOUR CLASSROOM (1 point each):

Length of your pen/pencil in mm _____ Length of your pen/pencil in cm _____





Your height in mm _____ Your height in cm _____

Width of your desk in mm _____ Width of your desk in cm _____

Length of your desk in mm _____ Length of your desk in cm _____

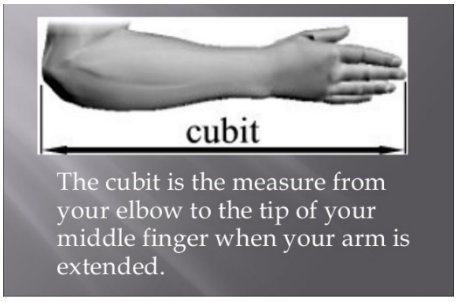
Height of your desk in mm _____ Height of your desk in cm _____

Height of chair in mm _____ Height of chair in cm _____

Length of your fingernail in mm _____ Length of your fingernail in cm _____

Length of the tip of your middle finger to your elbow in mm _____

Length of the tip of your middle finger to your elbow in cm _____



Length of your shoe from heel to toe in mm _____

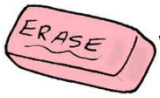
Length of your shoe from heel to toe in cm _____

Length of your binder in mm _____ Length of your binder in cm _____

Width of your binder in mm _____ Width of your binder in cm _____

Length of your pencil case in mm _____ Length of your pencil case in cm _____

Width of your pencil case in mm _____ Width of your pencil case in cm _____



Length of your eraser in mm _____ Length of your eraser in cm _____

Width of your eraser in mm _____ Width of your eraser in cm _____

Height of your eraser in mm _____ Height of your eraser in cm _____

CIRCLE THE *BEST* METRIC UNIT FOR EACH MEASUREMENT (1 point each)

Length of an eye lash	mm	cm	m	km
Height of a flagpole	mm	cm	m	km
Length of a spaghetti noodle	mm	cm	m	km
Distance from Flagstaff to Phoenix	mm	cm	m	km
Height of a house	mm	cm	m	km
Diameter of a bracelet	mm	cm	m	km
Length of the tail of a chihuahua	mm	cm	m	km
Whiskers of a hamster	mm	cm	m	km
Height of your Mom	mm	cm	m	km
Distance from school to your house	mm	cm	m	km
Height of a Tyrannosaurus Rex	mm	cm	m	km

METRIC PRACTICE PROBLEMS (1 point each):

1. 1000 g = _____ kg
2. 1 L = _____ mL
3. 2000 mg = _____ g
4. 104 km = _____ m
5. 480 cm = _____ m
6. 5.6 kg = _____ g
7. 8 mm = _____cm
8. 5 L = _____ mL
9. 198 g = _____ kg
10. 75 mL = _____ L
11. 50 cm = _____ m
12. 5.6 m = _____ cm
13. 16 cm = _____ mm
14. 2500 m = _____ km
15. 65 g = _____ mg
16. 6.3 cm = _____ mm
17. 120 mg = _____ g
18. 160 cm = _____ mm
19. 14 km = _____ m
20. 109 g = _____ kg

COMPARE THE FOLLOWING USING <, >, OR = (1 point each):

63 cm ◯ 6 m

5 g ◯ 508 mg

1500 mL ◯ 1.5 L

536 cm ◯ 53.6 dm

43 mg ◯ 5 g

3.6 m ◯ 36 cm

MORE METRIC PRACTICE (1 point each)

1. 37 mm = _____ cm
2. 107 cm = _____ m
3. 1529 m = _____ km
4. 26 cm = _____ m
5. 276 mL = _____ L
6. 8278 mL = _____ L
7. 27 mL = _____ L
8. 4010 mL = _____ L
9. 378 g = _____ kg
10. 56 g = _____ kg
11. 9762 g = _____ kg
12. 8920 g = _____ kg

13. In your own words explain how the stair step method works below. Use complete sentences. (3 points)