Length Lab

Name _____

Score _____ / points

1. What does each unit represent?
    (a) mm = _____ (b) m = _____
    (c) cm = _____ (d) km = _____

2. How much does each one equal?
    (a) 1 m = _____ cm (b) 1 cm = _____ mm   (c) 1 km = _____ m

3. Which measurement is the largest? Circle your answer for each pair.
    (a) 14 mm   or   1 cm   (d) 145 m   or   145 km
    (b) 334 m   or   1 km   (e) 3.4 cm   or   30 mm
    (c) 1 m   or   990 cm   (f) 10 km   or   1000 cm

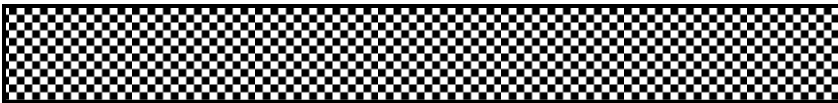4. What tool will you use answer these questions? _____

Line A

Line B

Length of line A in cm (to the tenth) _____   Length of line B in cm (to the tenth) _____
Length of line A in mm _____   Length of line B in mm _____

5. What tool will you use answer these questions? _____

Height of the rectangle in mm _____   Height of the rectangle in cm (to the tenth) _____
Width of the rectangle in mm _____   Width of the rectangle in cm (to the tenth) _____
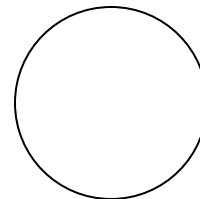Area of the rectangle in mm _____   Area of the rectangle in cm (to the tenth)

What formula did you use to calculate area? _____

6. What tool will you use to answer these questions? _____

        Radius of the circle in cm (to the tenth) _____
        Diameter of the circle in cm (to the tenth) _____

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7. What is the formula for finding the volume of a box? _____
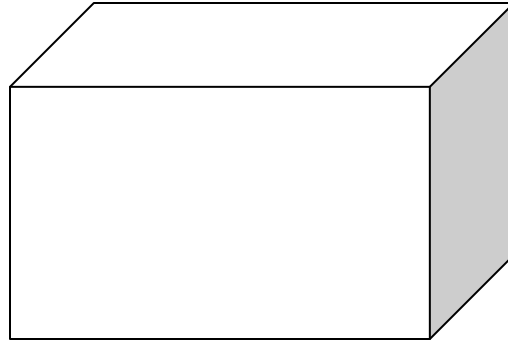
        Length of box in mm _____

        Width of box in mm _____

        Height of box in mm _____

        Volume of box _____

        What label would you use for the volume
            of this box? Write that label in your
            answer above.

        Length of box in mm _____

        Width of box in mm _____

        Height of box in mm _____

        Volume of box _____

        What label would you use for the volume
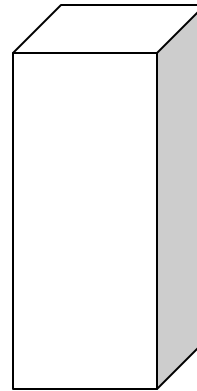   of this box? Write that label in your
            answer above.

8. Find the length of an unsharpened pencil (including eraser) in millimeters. _____

9. What is your height in centimeters? _____ What is your height in meters? _____ Do you

have to measure again to find your height in meters? Explain. _____

_____

_____

10. Find the distance between the lines in the back of the room in meters. _____

11. Use your shoe and a metric ruler to complete this section. Keep your shoes on for this one!

(a) What is the length of your shoe to the nearest centimeter? _____

(b) Approximately how many of your shoes would it take (heel to toe) to make 1 meter? _____

(c) How many shoes would it take to make 1 kilometer? _____

12. Circle the BEST metric unit for each.
      (a) The length of an eyelash   mm   cm   m   km
      (b) The height of a flagpole mm   cm   m   km
      (c) The length of a strand of spaghetti mm   cm   m   km
      (d) The distance from Chicago, IL, to Peoria, IL. mm   cm   m   km