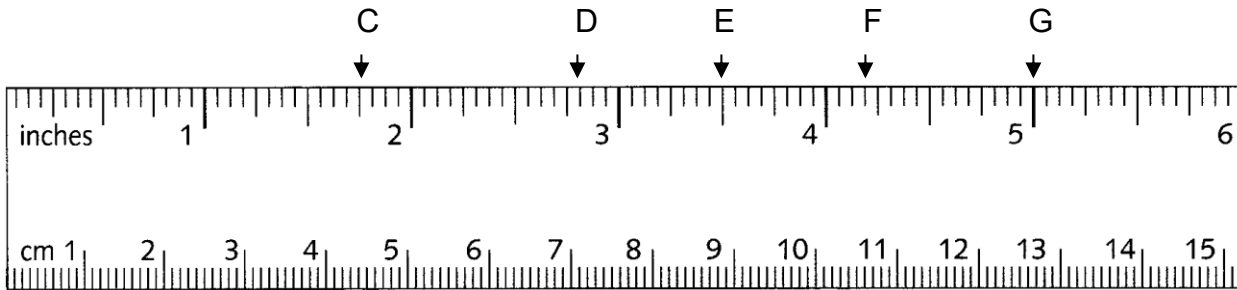


Name: _____

Math 10W Unit 3 Assessment Quiz 2

*show all of your work.

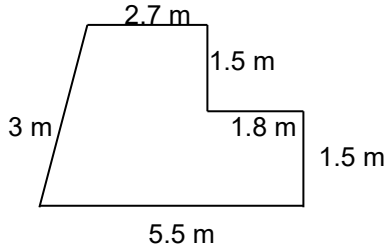
1. Using the ruler below, record the measurements represented by the letters.



$A = 6.2 \text{ cm}$
 $B = 11.8 \text{ cm}$
 $C = 1\frac{3}{4}''$
 $D = 2\frac{13}{16}''$
 $E = 3\frac{1}{2}''$
 $F = 4\frac{3}{16}''$
 $G = 5''$

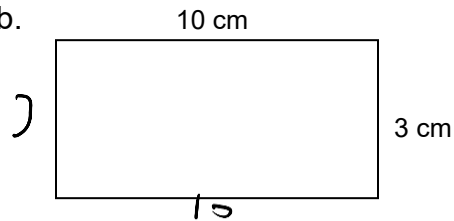
2. Find the **perimeter** of each of the following figures.

a.



$$3 + 5.5 + 1.5 + 1.8 + 1.5 + 2.7 = 16 \text{ m}$$

b.



$$10 + 3 + 10 + 3 = 26 \text{ cm}$$

3. If the perimeter of a rectangle is 150 m, and one side is 50 m, what is the length of the other side? SHOW YOUR WORK BELOW!



$$2x + 50 + 50 = 150$$

$$2x + 100 = 150$$

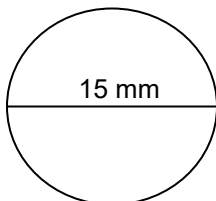
$$2x = 50$$

$$x = 25$$

OTHER SIDE IS 25m

Use your Formula Sheet to answer the next 3 questions.

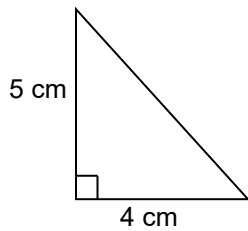
4. What is the circumference of the circle shown below?



$$C = \pi \times d$$

$$= \pi \times 15 = 47.12 \text{ mm}$$

5. Calculate the area of the figures below. Start with the formula for each figure.



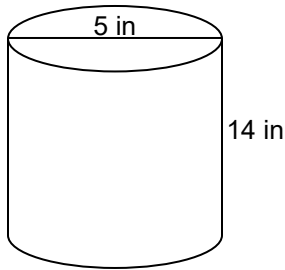
$$A = \frac{b \times h}{2} = \frac{4 \times 5}{2} = \frac{20}{2} = 10 \text{ cm}^2$$



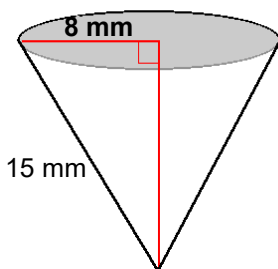
$$\begin{aligned} A &= L \times W \\ &= 22 \times 7 \\ &= 154 \text{ mm}^2 \end{aligned}$$

6. Calculate the surface area of the following figures. Start with the formula for each figure.

$$d = 5 \text{ so } r = 2.5$$



$$\begin{aligned} S.A. &= 2\pi r^2 + 2\pi r h \\ &= 2\pi (2.5)^2 + 2\pi (2.5)(14) \\ &= 259.18 \text{ in}^2 \end{aligned}$$



$$\begin{aligned} S.A. &= \pi r^2 + \pi r s \\ &= \pi (8)^2 + \pi (8)(15) \\ &= 578.05 \text{ mm}^2 \end{aligned}$$