3.1 Systems of Measurement

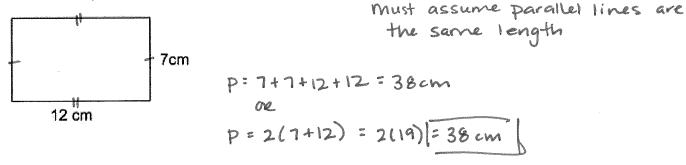
Name: Key

Investigate:

What is perimeter?

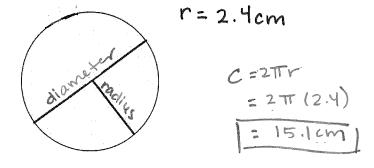
sum of the lengths of all sides of a polygon (add)

What is the perimeter of this figure? What assumptions do you have to make?



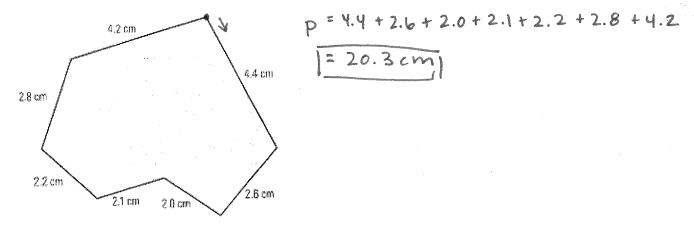
What is the distance around a circle called?

Label the diameter and the radius of the circle. Calculate the distance around the circle. $C = 2\pi r$



Examples:

Ex 1. What is the perimeter of this figure?



Ex 2. The sides of the flower garden shown below are 4m long. Each end is a semi-circle with a diameter of 2m. What is the perimeter of the flower garden?

$$P_0 = C = TId$$

$$= TI(2)$$

$$= 6.28m$$

$$P = 6.28 + 4 + 4 = 14.28m$$

Ex 3. Wilhelmina, a seamstress, is sewing bridesmaids' dresses. Each dress requires $3\frac{3}{4}$ yards of silk and $1\frac{1}{2}$ yards of lace fabric. How much of each type of material does Wilhelmina need to make 5 dresses?

Ex 4. Fatima is trying to calculate how much baseboard she will need for the room shown below. What is the minimum amount of baseboard she will need?

