FORM 2

# YOU ARE TO COPY THE NOTES, DRAW EACH FIGURE AND DO THE ACTIVITIES.

# Parts of a circle

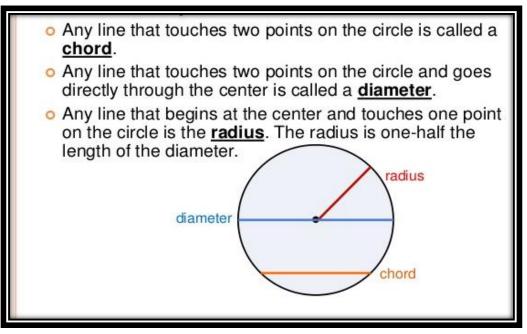


Figure 1.

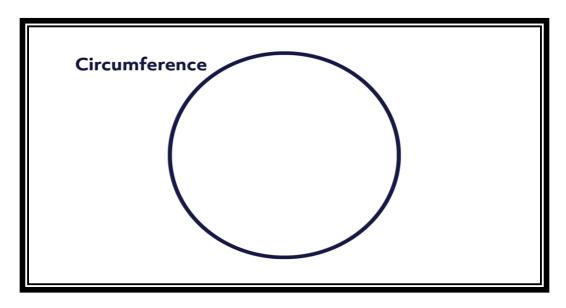


Figure 2.

The **perimeter** of a circle is called the circumference. **Perimeter: -** the sum of the distances around a closed shape.

# Activity 1

Your Turn: Draw five circles and for each circle make up measurements for the diameters of the circles and thus state the radius measurement for each circle.

Here is an example:



<u>*NB*</u>: **d** is the short form for diameter and **r** is for radius

 $d = 80 \text{ mm } \mathbf{r} = 40 \text{ mm}$  (half of the diameter)

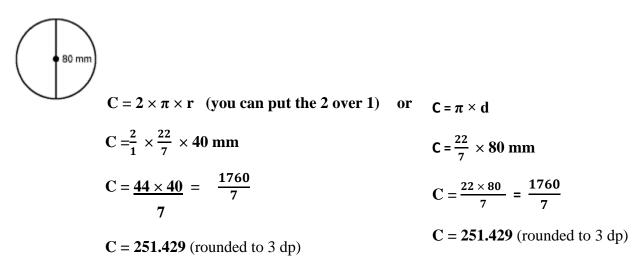
#### **<u>Circumference of circle</u>**

The **perimeter** of a circle is called the circumference. **Perimeter:-** the sum of the distances around a closed shape.

To find the circumference of a circle, you use the formula:  $\mathbf{C} = \mathbf{2} \times \mathbf{\pi} \times \mathbf{r}$  or  $\mathbf{\pi} \times \mathbf{d}$ 

**NB:** C means circumference and  $\pi$  has a value of  $\frac{22}{7}$  or 3.142

Example: Find the circumference of the circle below.



<u>YOUR TURN:</u> Activity 2: pg 37 Ex 4b # 1, 2 & 3

# FORM 2

# ADDITIONAL ACTIVITIES

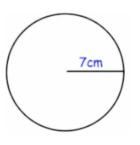
### <u>Area</u>

**Area** is a measure of how much space there is on a flat surface. It's basically the size of a surface.

The area of a circle is calculated by using the formula:  $A = \pi \times r^2$ 

# Example



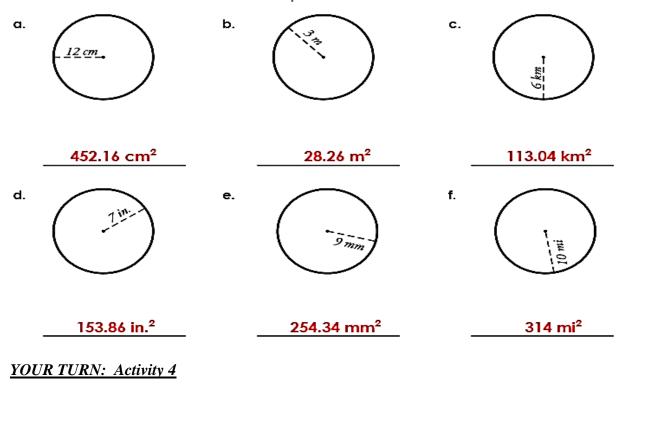


 $A = \pi \times r \times r$  $A = \frac{22}{7} \times 7 \times 7$ 

A = 154 cm<sup>2</sup> (your answer must be expressed in units squared)

<u>YOUR TURN:</u> Activity 3 NB: The answers are in red. You are to show the workings as to how these areas are obtained

Find the area of each circle. Use 3.14 for pi.



FORM 2

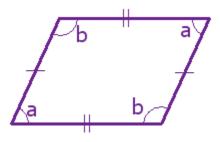
# ADDITIONAL ACTIVITIES

Find the area of each circle. Use 3.14 for pi. Show your work.

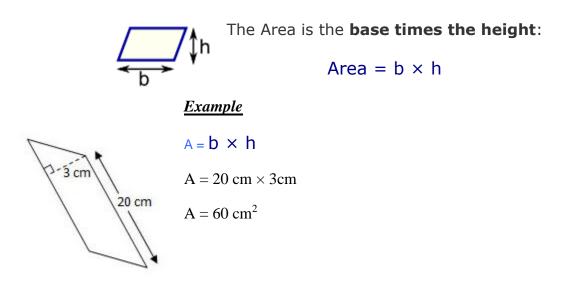


# <u>Area of Parallelogram</u>

A Parallelogram is a flat shape with opposite sides parallel and equal in length.



# Area of a Parallelogram

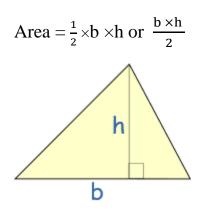


#### FORM 2

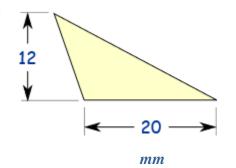
#### ADDITIONAL ACTIVITIES

### Area of Triangle

To calculate the area of a triangle the formula below is used:



**Example** 

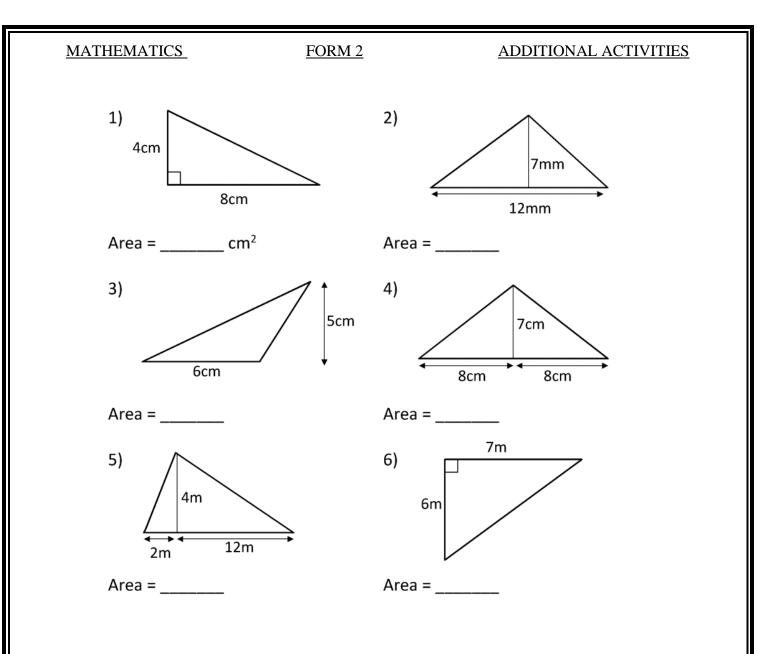


(Note: 12 is the **height**, not the length of the left-hand side)

Height = h = 12 mm Base = b = 20 mm Area =  $\frac{1}{2} \times b \times h = \frac{1}{2} \times 20 \times 12 = 120$ 

YOUR TURN: Activity 5 pg 40 Ex 4c # 1-16 ALL WORKINGS MUST BE SEEN

Activity 6: Find the area of the triangles given below. All workings must be shown.



# <u>ALL WORK MUST BE COMPLETED AS THE WORK WILL BE DISCUSSED WHEN</u> <u>SCHOOL REOPENS</u>