Name _____

Area of a Circle
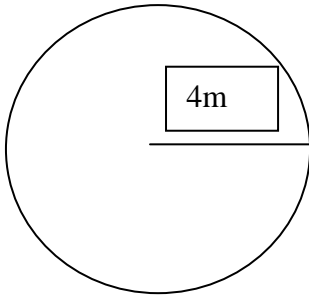
AREA = Π r² Where: **Π = 3**
  r = radius

This is the same as:
AREA = Π x (r x r)

Example:

4m

WORKINGS OUT
AREA =   Π r²

AREA =   Π x r²

AREA =   Π x (r x r)   **Do brackets first**

AREA =   3 x (4 x 4)

AREA =   3 x 16 = **48m²**

Try These:

1
9m

2
5cm

3
14m

4
2.5m

5
7m

6
24m

MSS1/L2.7 Understand & use given formulae for finding areas & perimeters of regular shapes). Also underpins L2 Functional Maths: coverage and range - find area, perimeter & volume of common shapes (but the related process and performance skills *must* also be considered).
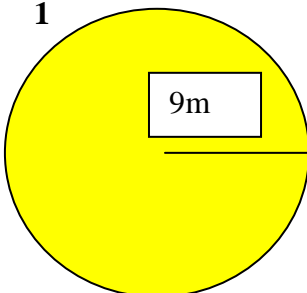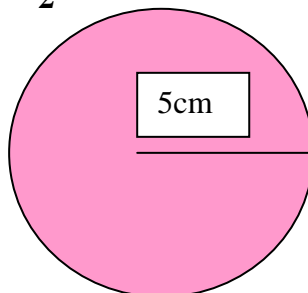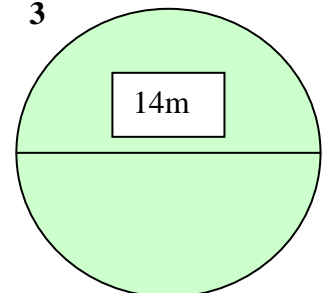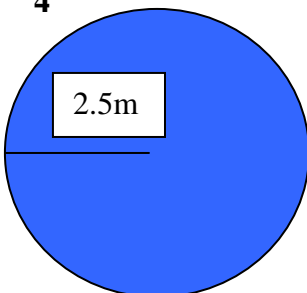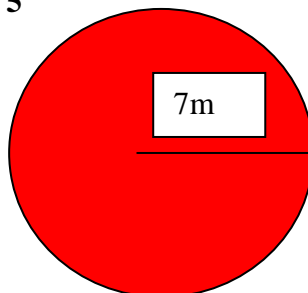
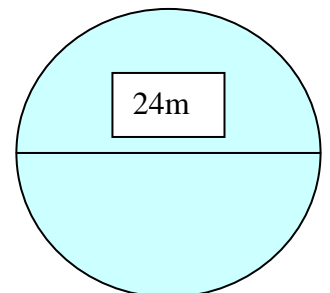Name _____

Area of a Triangle

AREA = ½bh   **Where:**   **b= base**
                                        h = height

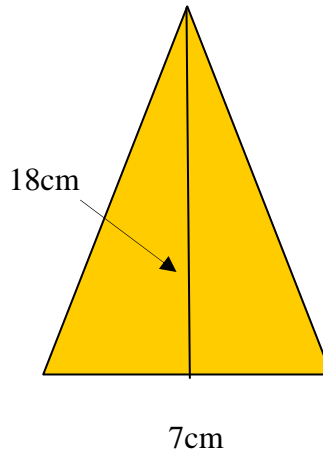**This is the same as:**
AREA = 0.5 x b x h

Example:

h
3cm

b
4cm
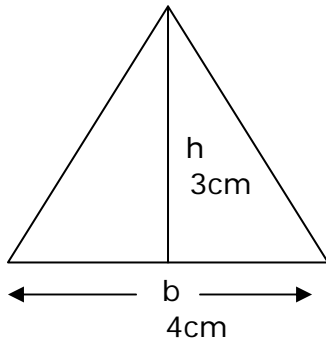
WORKINGS OUT
AREA =   ½bh

AREA =   ½ x b x h

AREA =   0.5 x 3 x 4   or   ½ x 3 x 4

AREA =   0.5 x 12   or   ½ of 12

AREA =   **6m^2**

Try These:

1

9cm
4cm

2

18cm
7cm

3

5cm
5cm

4

12cm
6cm

5

8cm
9cm

6

4cm
4cm
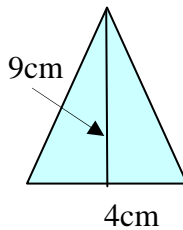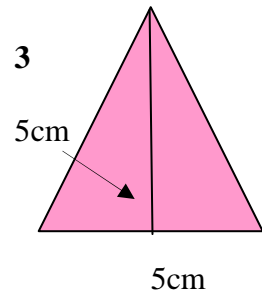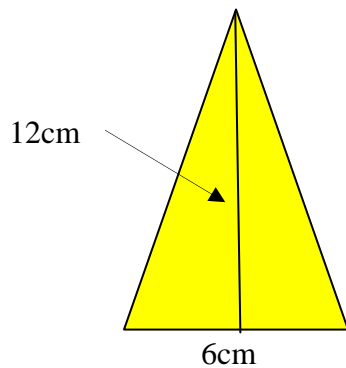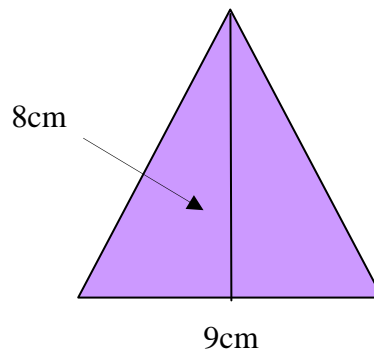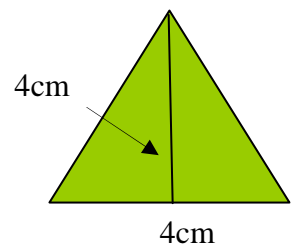
Answers

Circles
AREA = Π r²

1. A = 3 x 9² = 3 x 27 = 81m²
2. A = 3 x 5² = 3 x 25 = 75cm²
3. A = 3 x 7² = 3 x 49 = 147m²
4. A = 3 x 2.5² = 3 x 6.25 = 18.75m²
5. A = 3 x 7² = 3 x 49 = 147m²
6. A = 3 x 12² = 3 x 144 = 432m²

Triangles
AREA = ½bh

1. ½ x 4 x 9 = 18cm²
2. ½ x 7 x 18 = 63cm²
3. ½ x 5 x 5 = 12.5cm²
4. ½ x 6 x 12 = 36cm²
5. ½ x 9 x 8 = 36cm²
6. ½ x 4 x 4 = 8cm²