

### Area and Circumference of Circles

**WALT:** illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius describing it algebraically as  $d=2 \times r$

**Gold WILF:** I can calculate the circumference of circles using a given formula

**Mastery Wilf:** I can find the circumference and area of circles using a given formula

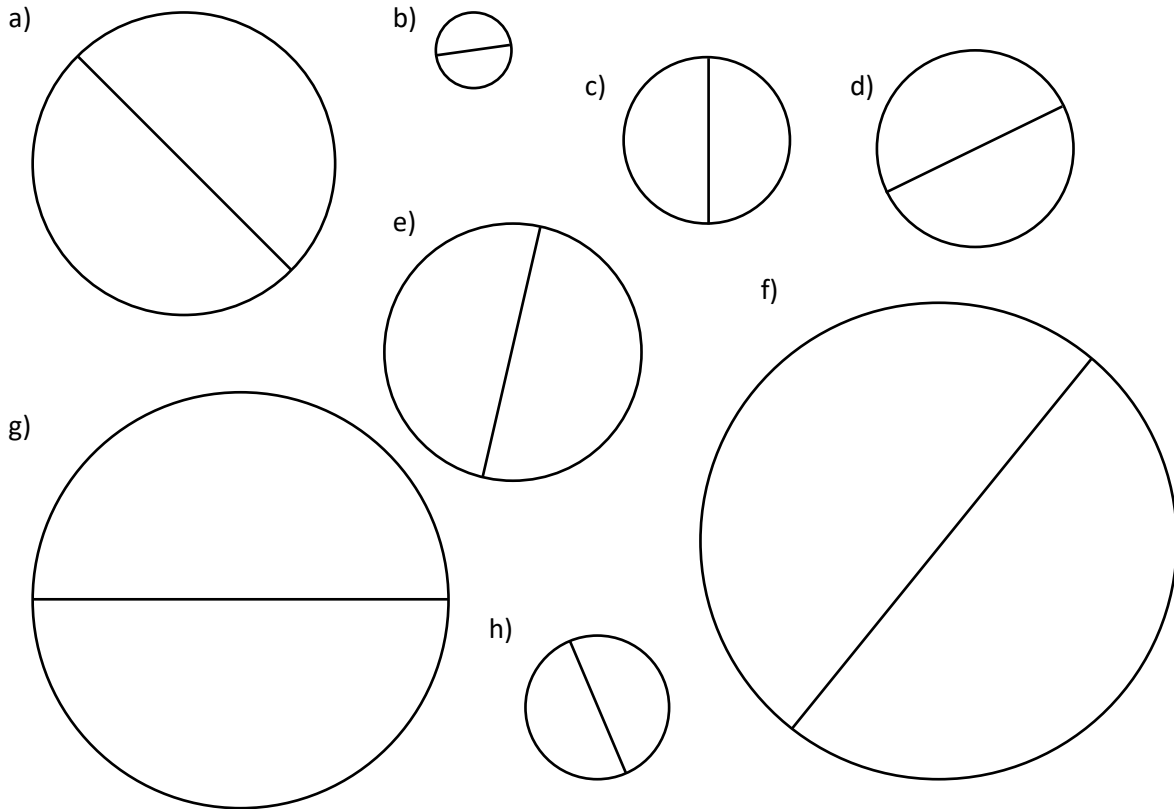
### Section A : Finding the Circumference of a Circle

- 1) Measure the diameter of each circle and find the circumference.  
Give your answers to 2 d.p. and remember to state your units.

**FORMULA BOX :**

$$C = \pi d$$

$$\pi = 3.14$$

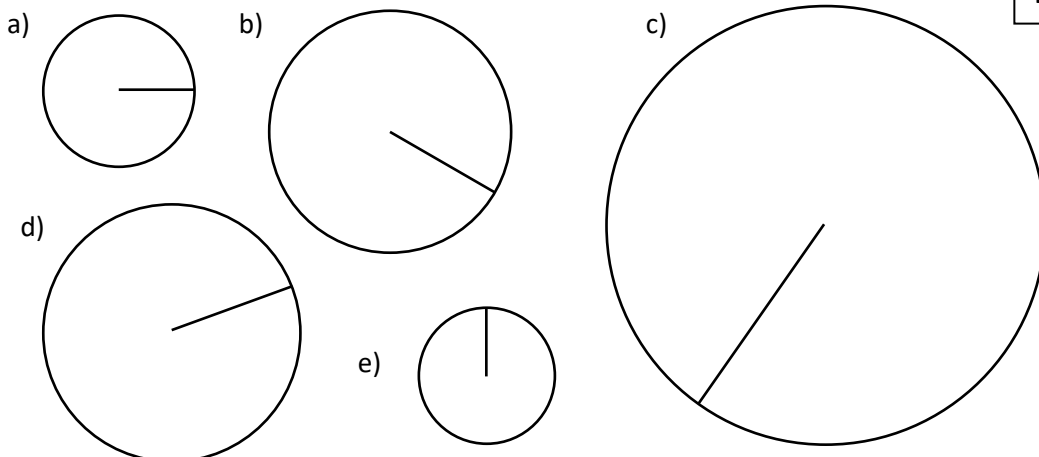


- 2) Measure the radius of each circle and find the circumference to 2 d.p.

**FORMULA BOX :**

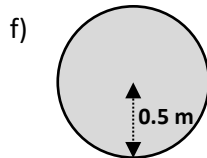
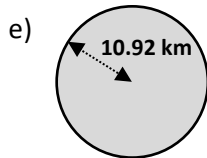
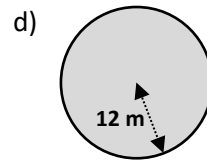
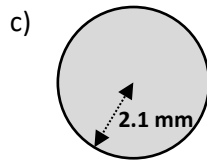
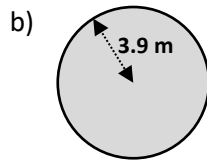
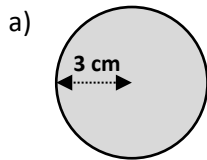
$$C = 2\pi r$$

$$\pi = 3.14$$



## Section B : Area of Circles

3) Find the area of each circle, giving your answers to 2 d.p. Remember to state your units.

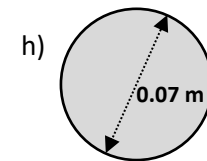
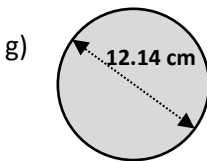
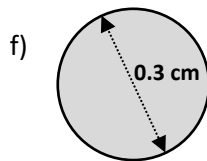
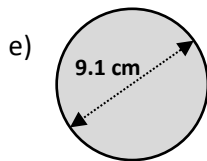
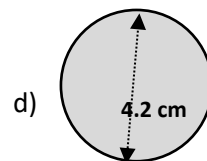
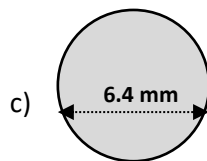
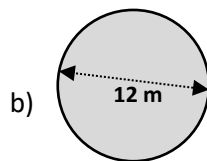
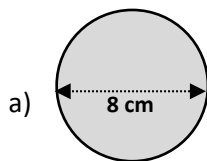


**FORMULA BOX :**

$$A = \pi r^2$$

| Answer a | Answer b | Answer c | Answer d | Answer e | Answer f |
|----------|----------|----------|----------|----------|----------|
|          |          |          |          |          |          |

4) Find the area of each circle to 2 dp, taking  $\pi = 3.14$



**FORMULA BOX :**

You must find the radius first by halving the diameter

$$A = \pi r^2$$

| Answer a | Answer b | Answer c | Answer d | Answer e | Answer f | Answer g | Answer h |
|----------|----------|----------|----------|----------|----------|----------|----------|
|          |          |          |          |          |          |          |          |