

Investigating Circles

1. Working in **pairs**, cut out the card circles.
2. Using a **ruler**, measure the **diameter** of each circle to the nearest 0.1 cm – it helps if you fold the circle in half.
3. Using **string/tape measure**, measure the **circumference** of the circle to the nearest 0.1 cm .
4. Calculate the value of $Circumference \div Diameter$ to 2 decimal places.

Circle	Diameter d (cm)	Circumference C (cm)	$C \div d$
A			
B			
C			
D			
E			
F			
G			
H			

5. Find the **radius** of each circle – remember that the **radius** is **half** of the **diameter**.
6. Draw around your circle onto **centimetre squared paper** and **estimate** its **area**.
7. Calculate the value of $Area \div Radius^2$ to 2 decimal places.

Circle	Radius r (cm)	Radius r^2 (cm^2)	Estimated area A (cm^2)	$A \div r^2$
A				
B				
C				
D				
E				
F				
G				
H				

What do you notice?

A

B

G

C

D

E

H

F