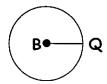
AREA OF A CIRCLE - Obj: To find the area of a circle.

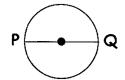
Radius - a line segment from the center of a circle to any point on the circle.



Radius =  $d \div 2$ 

Ex) If the diameter is 16 cm what is the radius?

<u>Diameter</u> - a line segment that goes from one point on the circle through the center to another point on the circle.



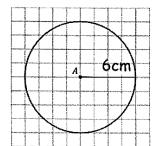
Diameter = 2r

or

Diameter = Radius + Radius

Area- the number of square units needed to cover the surface of the circle

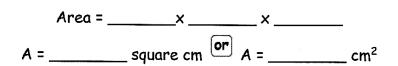
You will be given one formula for area:



$$A = \pi r^2$$

Area = Pi x radius squared

Area = Pi x r x \_\_\_\_







$$A = \pi r^2$$

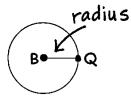


If the diameter is shown - you need to divide it by 2 to find the radius.



AREA OF A CIRCLE - Obj: To find the area of a circle.

a line segment from the center of a circle to any point Radius on the circle.



Ex) If the diameter is 16 cm what is the radius?

<u>Diameter</u> - a line segment that goes from one point on the circle through the center to another point on the circle.

Diameter = 2r



Diameter = Radius + Radius



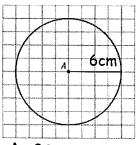
Area - the number of square units needed to cover the surface of the circle

You will be given one formula for area:

$$r = 6 cm$$

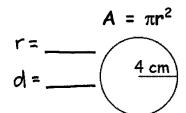
$$A = \pi r^2$$

Area = Pi x radius squared



Area = \_\_\_\_\_x \_\_\_\_x \_\_\_\_\_x

'Area always uses square units!

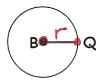


$$r = \frac{A = \pi r^2}{d = \frac{1.2 \text{ m}}{d}}$$

If the diameter is shown - you need to divide it by 2 to find the radius.

AREA OF A CIRCLE - Obj: To find the area of a circle.

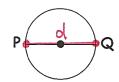
a line segment from the center of a circle to any point Radius on the circle.



Radius = 
$$d \div 2$$
  
 $r = 16 \div 2$   
 $r = 8 \text{ cm}$ 

Ex) If the diameter is 16 cm what is the radius?  $\frac{8}{100}$  cm

<u>Diameter</u> - a line segment that goes from one point on the circle through the center to another point on the circle.

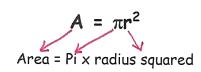


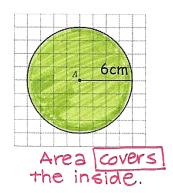
Diameter = 2r d = 2 x radius

Diameter = Radius + Radius

Area- the number of square units needed to cover the surface of the circle

You will be given one formula for area:





\* use the shaded example

Area = 3.14 x 6 x

 $A = \frac{207.24}{\text{square cm}} A = \frac{207.24 \text{cm}^2}{\text{cm}^2}$ 

Area always uses square units!

1.2 m

 $A = \pi r^2$ 

 $A = 3.14 \times 1.2^{2}$ 

If the diameter is shown - you need to divide it by 2 to find the radius.

 $r = 4 \div 2 \div 2$ 

A=Tr2 A = 3.14 × 22

6.4 mm

r=6.4+2 r= 3,2mm

A=Tr2  $A = 3.14 \times 3.2^{2}$  $A = 3.14 \times 3.2 \times 3.2$