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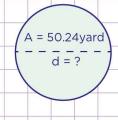
Circles: calculate area, circumference, radius, and diameter.

- 1. The radius of a circle is 2 km.

 Find the area of the circle.
- 3. The diameter of the circle is 7 cm.
 - a) Find the radius of the circle.



- 2. The area of the circle is 50.24 square yards What is the diameter of the circle?
- **b)** Find the circumference of the circle.



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Circles: calculate area, circumference, radius, and diameter.

Area of a circle =	$=\pi r^2$
1. The radius of a circle is 2 km. Find the area of the circle.	3. The diameter of the circle is 7 cm.a) Find the radius of the circle.
$\pi = 3.14$ $r = 1.5 \text{ km}$ Area of a circle = πr^2	$\pi = 3.14$ $r = ?$ $diameter = 7 cm$
Substitude the numbers and solve. Area = 3.14 x (1.5 km) ² 3.14 x 2.25 km = 7.065 km	Find the radius given the diameter. $d = 2 \times r$ $7 = 2 \times r$ r = 7/2 = 3.5 cm
So, the area is 7.065 km².	So, the radius is 3.5 cm.
2. The area of the circle is 50.24 square yards. What is the diameter of the circle? $\pi = 3.14$ $A = 50.24 \text{ yd}$ radius = ? diameter = ? Let's first find the radius. Area = πr^2 make r the subject So, $r = \sqrt{\frac{\text{area}}{\pi}}$ So, $r = 4$	b) Find the circumference of the circle. $\pi = 3.14$ $r = 3$ $diameter = 9 \text{ cm}$ $Circumference (c) = 2\pi r$ $Now substitude the values in to the formula C = 2 (3.14)(3)$ $C = (6.28)(3)$ $C = 18.84$
Now, find the diameter (d). d = 2r	So, the circumference is 18.84.
d = 2 x 4 d = 8 yards So, the diameter is 8 yards.	