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

Area	of	а	circl	le	=	πr^2
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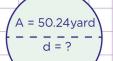
- The radius of a circle is 2 km. 3. The diameter of the circle is 6.6 cm 1. Find the area of the circle.
 - a) Find the radius of the circle.

 $\pi = 3.14$

2 km

 $\pi = 3.14$

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





6.6 cm

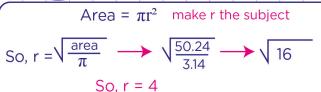




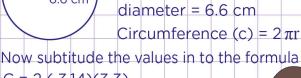
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Circles: calculate area, circumference, redius, and diameter. Area of a circle = πr^2 1. The radius of a circle is 2 km. 3. The diameter of the circle is 6.6 cm Find the area of the circle. a) Find the radius of the circle. $\pi = 3.14$ $\pi = 3.14$ r = 2 kmr = ?2 km 6.6 cm Area of a circle = πr^2 diameter = 6.6 cm Subtitude the numbers and solve find the radius given the diameter Area = $3.14 \times (2 \text{ km})^2$ $d = 2 \times r$ $3.14 \times 4 \text{ km}^2 = 12.56 \text{ km}^2$ $6.6 = 2 \times r$ r = 6.6/2 = 3.3 cmSo, the area is 12.54 km² So, the radius is 3.3 cm 2. The area of the circle is 50.24 square yards b) Find the circumference of the circle. What is the diameter of the circle? $\pi = 3.14$ $\pi = 3.14$ A = 50.24 yardradius = ? r = 3.36.6 cm d = ?diameter = ? diameter = 6.6 cm Let's first find the radius. Area = πr^2 make r the subject



Now, find the diameter (d) d = 2r $d = 2 \times 4$ d = 8 yards So, the diameter is 8 yards



C = 2 (3.14)(3.3)C = (6.28)(3.3)C = 20.72

So, the circumference is 20.72