GRADE 7 MATH · CLASSWORK

Use Circumference to Find the Area of a Circle

SCORE / 25

01 Part A · Practice

Use the circumference to find the radius ($r = C \div 2\pi$), then find the area with $A = \pi r^2$.

EXAMPLE

A circle has a circumference of 18π cm. Find its area.

1. $C = 2\pi r = 18\pi$, so $r = 9$ cm.
2. $A = \pi r^2 = \pi \times 9^2$.
3. $A = 81\pi$ cm^2 (about 254.34 cm^2).

1 ●○○ Find the area of the circle. Use 3.14 for π. Round to the nearest hundredth.



C = 21.98 in.

2 ●○○ The circumference of a circle is 36π ft. Find its area in terms of π.

3 ●○○ A circle has a circumference of 75.36 yd. Find its area. Use 3.14 for π.

4 ●○○ A circle has a circumference of 69.08 ft. Find its area. Use 3.14 for π.

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Preview - the full worksheet and its answer key are at primeworksheet.com