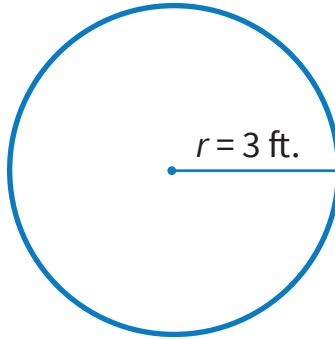# AREA OF CIRCLES

To find the area of a circle with radius *r*, you can use this formula:

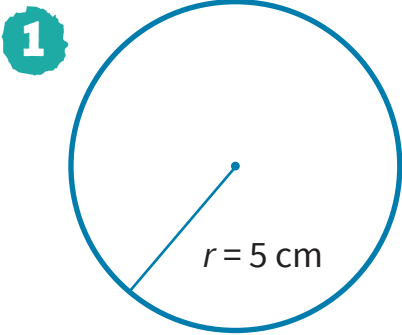$$A = \pi r^2$$

Try it!
Find the area of the circle. Use 3.14 as an approximation for π.
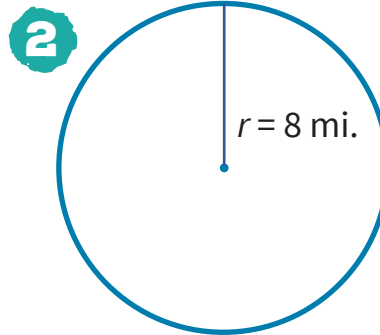
r = 3 ft.

$A \approx 3.14 \cdot 3^2$

$\approx 3.14 \cdot 9$

≈ 28.26 ft.^{2}

Try it yourself! Calculate the area of each circle. Use 3.14 for π.

1

r = 5 cm

$A \approx$ ___**78.5 cm^2**___

2

r = 8 mi.

$A \approx$ ___**200.96 mi.^{2}**___

3

r = 4 in.

$A \approx$ ___**50.24 in.^{2}**___

4

r = 6 km
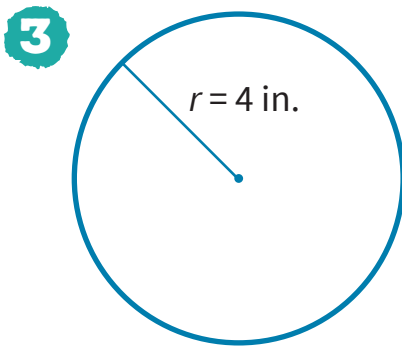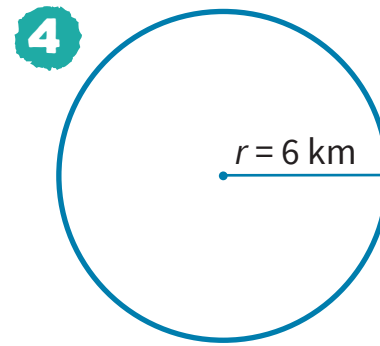
$A \approx$ ___**113.04 km^2**___
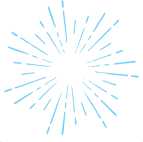
AREA OF CIRCLES
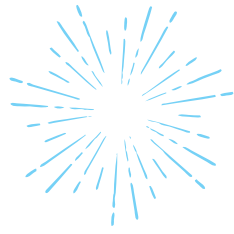
Keep going! Calculate the area of each circle. Use 3.14 for π.

5 *r* = 10 ft.

$A \approx$ _____**314 ft.²**_____

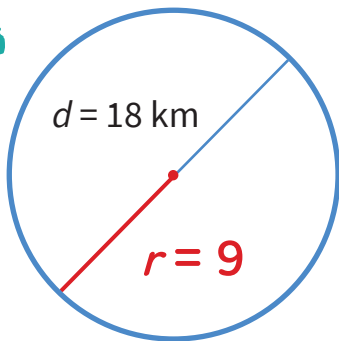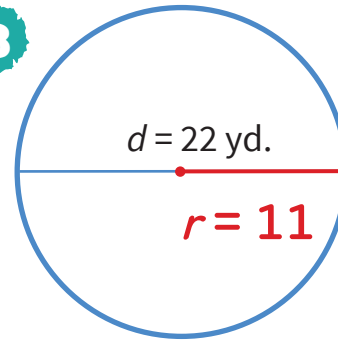**6** *r* = 14 m
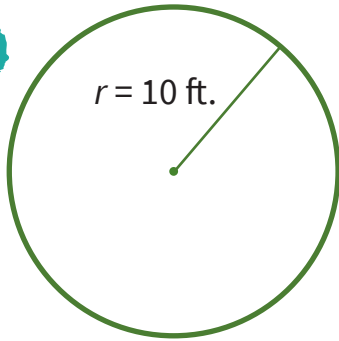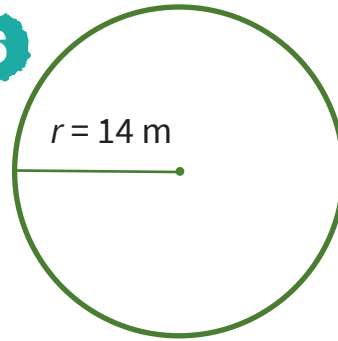
$A \approx$ _____**615.44 m²**_____

Challenge yourself! Think about how you could use the same area formula to find the area of the circles below. Then calculate the area of each circle. Use 3.14 for π.
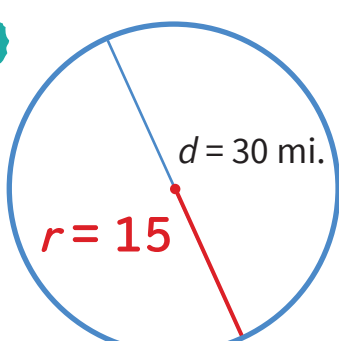
7 *d* = 18 km
r = 9

$A \approx$ _____**254.34 km²**_____

8 *d* = 22 yd.
r = 11

$A \approx$ _____**379.94 yd.²**_____

9 *d* = 30 mi.
r = 15

$A \approx$ _____**706.5 mi.²**_____

10 *d* = 38 cm
r = 19

$A \approx$ _____**1133.54 cm²**_____

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