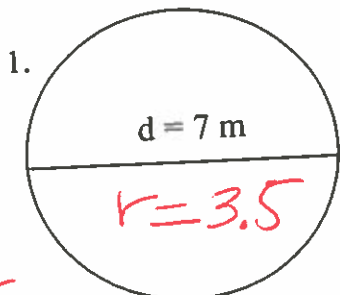


AREA OF CIRCLES

$$A = \pi r^2 \quad A = \pi \times r \times r$$

* $\pi \approx 3.14$



$$r = \frac{d}{2}$$

$$r = \frac{7}{2}$$

$r = 3.5 \text{ m}$

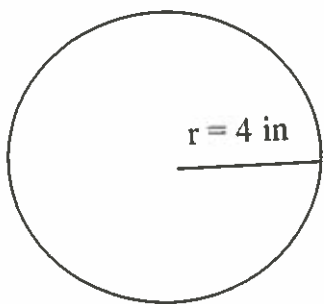
$$A = \pi r^2$$

$$A \approx 3.14(3.5)^2$$

$$A \approx 3.14(12.25)$$

$$A \approx 38.465$$

$$A \approx 38.5 \text{ m}^2$$



$$A = \pi r^2 \quad A = \pi \times r \times r$$

$$A = 3.14(4)^2 \quad A = 3.14 \times 4 \times 4$$

$$A = 3.14(16) \quad A = 12.56 \times 4$$

$$A = 50.24 \text{ in}^2 \quad A = 50.24 \text{ in}^2$$

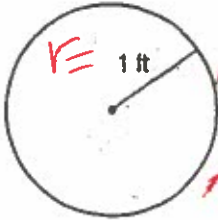
Formulas mean the same

14-3 Practice: Skills

Area of Circles

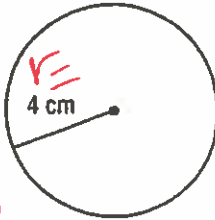
Find the area of each circle to the nearest tenth. Use 3.14 for π .

1.



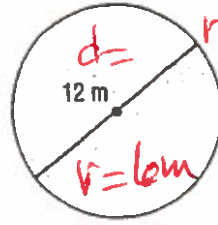
$A = \pi r^2$
 $A = 3.14(1)^2$
 $A = 3.14(1)$
 $A = 3.14$

2.



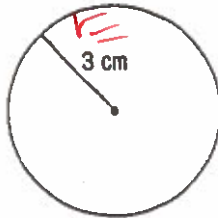
$A = \pi r^2$
 $A = 3.14(4)^2$
 $A = 3.14(16)$
 $A = 50.24$

3.

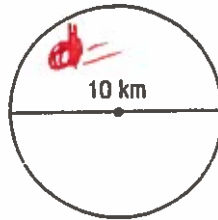


$r = \frac{d}{2}$
 $r = \frac{12}{2}$
 $r = 6$
 $A = \pi r^2$
 $A = 3.14(6)^2$
 $A = 3.14(36)$
 $A = 113.04$

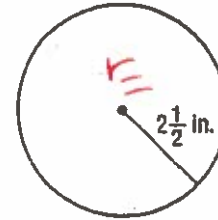
4.



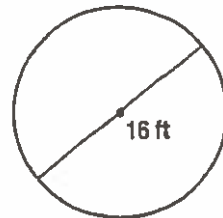
5.



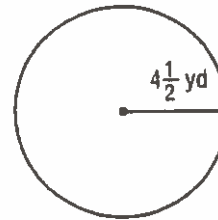
6.



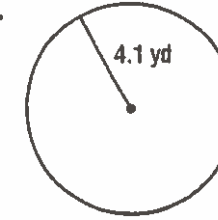
7.



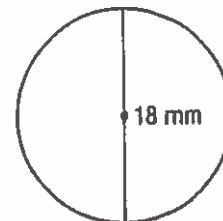
8.



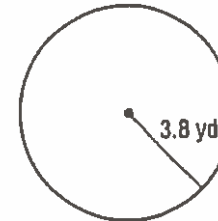
9.



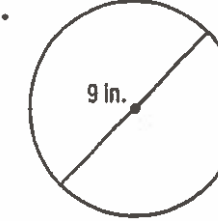
10.



11.



12.



13. What is the area of a circle whose radius is 4.2 yards?

14. Find the area of a circle with a diameter of 13 meters.

15. What is the area of a circle whose radius is 6.6 inches?