

# Circumference

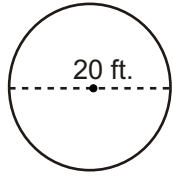
We must double the radius to get the diameter.

When finding the circumference of any circle you are finding the distance around the circle.

Circumference is a term which means the perimeter of a circle.

Examine the two formulas used to find the circumference.

Formula A  
When diameter is given.

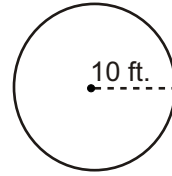


$$C \approx \pi \cdot d$$

$$C \approx 3.14 \cdot 20$$

$$C \approx \mathbf{62.8 \text{ ft.}}$$

Formula B  
When the radius is given.



$$C \approx \pi \cdot 2 \cdot r$$

$$C \approx 3.14 \cdot 2 \cdot 10$$

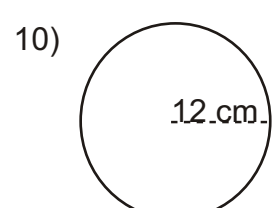
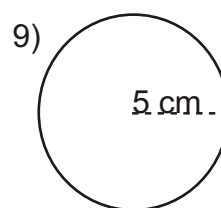
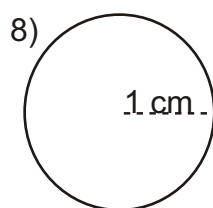
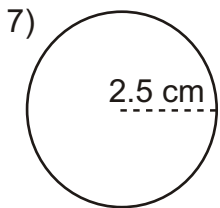
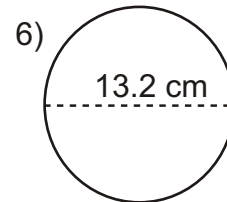
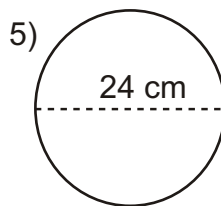
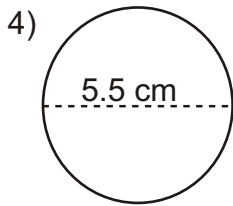
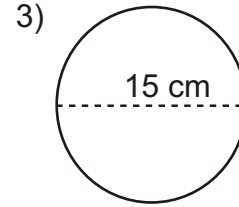
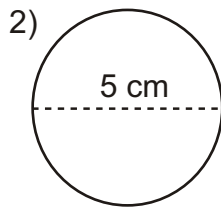
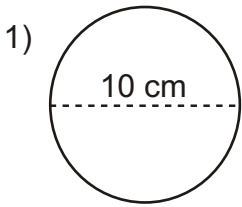
$$C \approx 3.14 \cdot 20$$

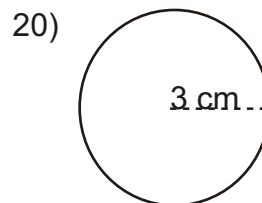
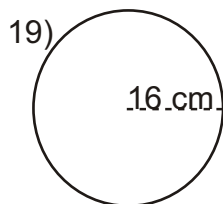
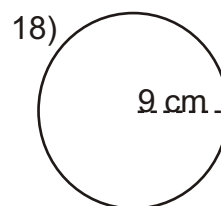
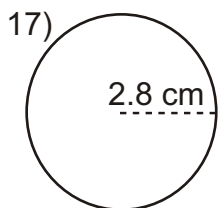
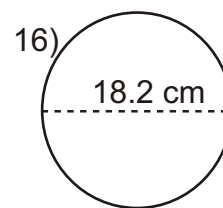
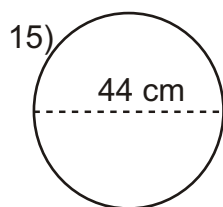
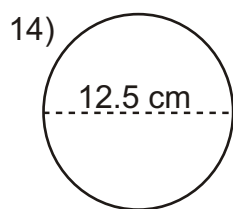
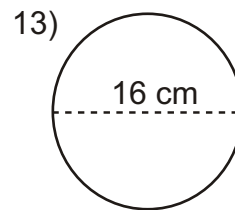
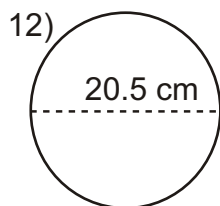
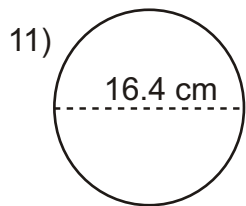
$$C \approx \mathbf{62.8 \text{ ft.}}$$

The distance around any circle (circumference) is about 3.14 times larger than its own diameter. This is why we multiply 3.14 by the diameter of the circle to find the circumference.

Multiplying the diameter by 3 is a good way to estimate what your answer will be close to.

Directions: Find the circumference of each of the following circles.





# Circumference

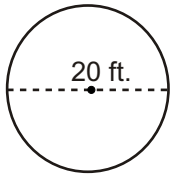
We must double the radius to get the diameter.

When finding the circumference of any circle you are finding the distance around the circle.

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When diameter is given.

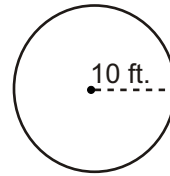


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$$C \approx 3.14 \cdot 20$$

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Formula B  
When the radius is given.



$$C \approx \pi \cdot 2 \cdot r$$

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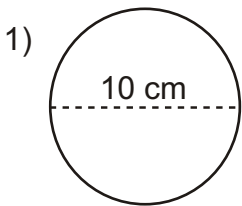
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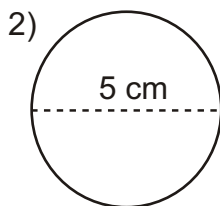
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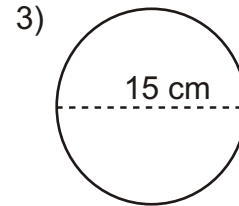
Directions: Find the circumference of each of the following circles.



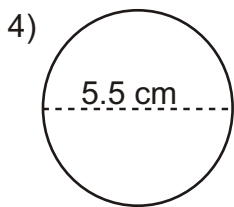
$$C \approx 31.4 \text{ cm}$$



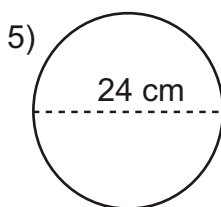
$$C \approx 15.7 \text{ cm}$$



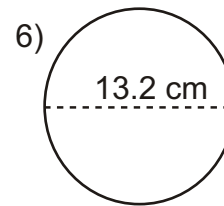
$$C \approx 47.1 \text{ cm}$$



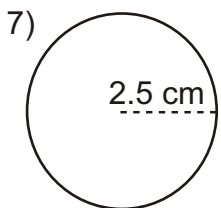
$$C \approx 17.27 \text{ cm}$$



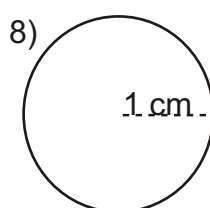
$$C \approx 75.36 \text{ cm}$$



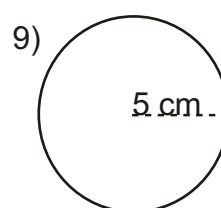
$$C \approx 41.448 \text{ cm}$$



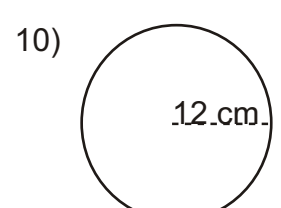
$$C \approx 15.7 \text{ cm}$$



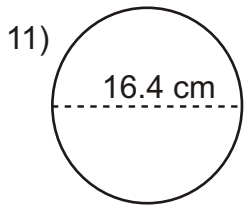
$$C \approx 6.28 \text{ cm}$$



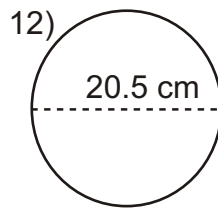
$$C \approx 31.4 \text{ cm}$$



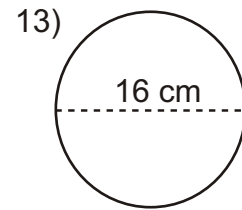
$$C \approx 75.36 \text{ cm}$$



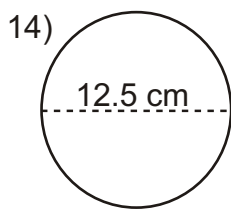
**$C \approx 51.496 \text{ cm}$**



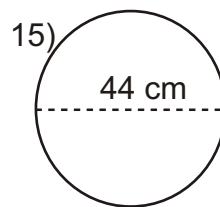
**$C \approx 64.37 \text{ cm}$**



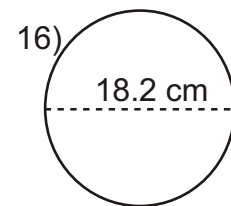
**$C \approx 50.24 \text{ cm}$**



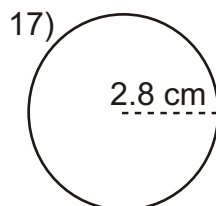
**$C \approx 39.25 \text{ cm}$**



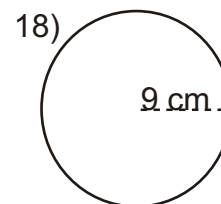
**$C \approx 138.16 \text{ cm}$**



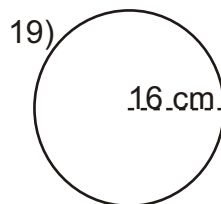
**$C \approx 57.148 \text{ cm}$**



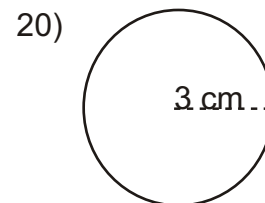
**$C \approx 17.584 \text{ cm}$**



**$C \approx 56.52 \text{ cm}$**



**$C \approx 100.48 \text{ cm}$**



**$C \approx 18.84 \text{ cm}$**