

Circle Vocabulary

Arc

Center

Chord

Diameter

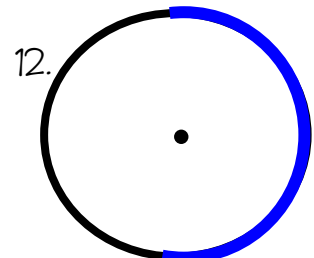
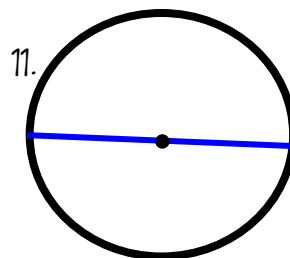
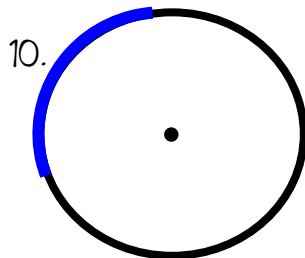
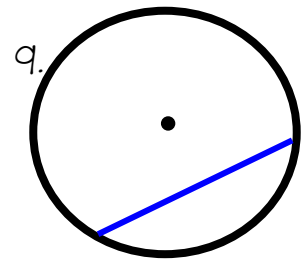
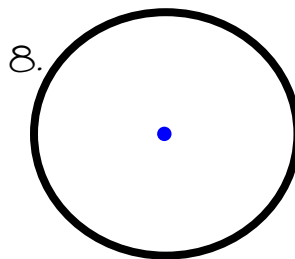
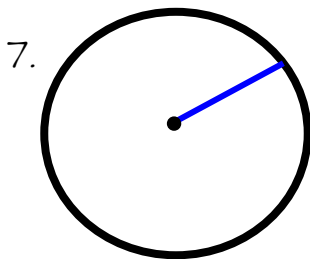
Radius

Semicircle

Use the word bank above to fill in the blanks.

1. The _____ is the point in the middle of a circle.
2. A/an _____ is a line segment that connects two points on a circle.
3. A/an _____ is a curve on a circle.
4. A line segment that connects the center of a circle to a point on the circle is called a/an _____.
5. A line segment that connects two points on a circle and passes through the center is called a/an _____.
6. Half of a circle is called a/an _____.

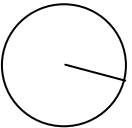
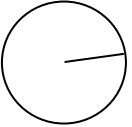
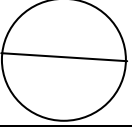
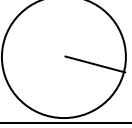
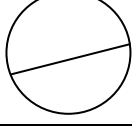
Write the vocabulary term from the word bank that is illustrated in each picture.



Circumference

Write the circumference formula in the box below.

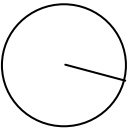
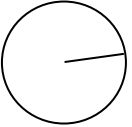
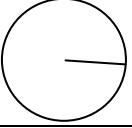
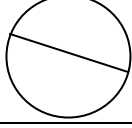
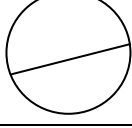
Find the circumference of each circle to the nearest tenth. Show your work in the space provided.

Given Information	Work	Circumference
1. radius = 9 cm		
2. diameter = 4 in		
3. diameter = 1 ft		
4. radius = 9.75 cm		
5. diameter = $3\frac{1}{2}$ in		
6.  10 cm		
7.  1.5 m		
8.  13 ft		
9.  21 in		
10.  $6\frac{2}{5}$ cm		

Area of Circles

Write the formula for the area of a circle in the box below.

Find the area of each circle to the nearest tenth. Show your work in the space provided.

Given Information	Work	Area
1. radius = 19 in		
2. diameter = 3 ft		
3. diameter = 2.7 in		
4. diameter = $3\frac{1}{4}$ m		
5. radius = 28 cm		
6.  12 cm		
7.  2.5 m		
8.  $2\frac{1}{2}$ in		
9.  8 ft		
10.  23 in		

Area and Circumference Word Problems

For each word problem state whether you need to find the **area** or **circumference** and circle the word or phrase that tells you which you are looking for. Then solve the problem. Round your answer to the nearest tenth.

1. You buy a circular rug with a diameter of 8 feet. How much floor space will the rug cover?
2. Terry ran around a circular track. If the radius of the track is 200 feet, how far did Terry run?
3. Sue had a circular picture that she wanted to frame. If the picture's diameter was 7.5 inches, how much framing material did she need?
4. Tommy wanted to hang a circular poster on his wall. If the radius of the poster is 2 feet, how much space will the poster take up on the wall?
5. Johnny wrapped a piece of string around a can of soup. If the soup's diameter is 4 inches, how long was the string Johnny used to wrap around it?

Answer Key

Circle Vocabulary

Arc

Center

Chord

Diameter

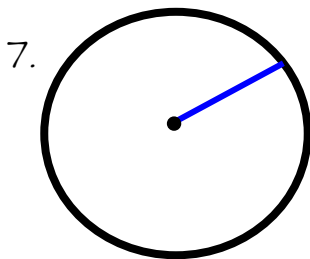
Radius

Semicircle

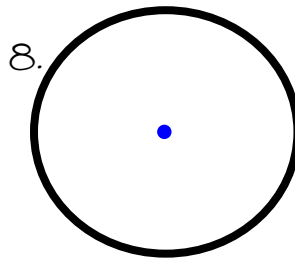
Use the word bank above to fill in the blanks.

1. The center is the point in the middle of a circle.
2. A/an chord is a line segment that connects two points on a circle.
3. A/an arc is a curve on a circle.
4. A line segment that connects the center of a circle to a point on the circle is called a/an radius.
5. A line segment that connects two points on a circle and passes through the center is called a/an diameter.
6. Half of a circle is called a/an semicircle.

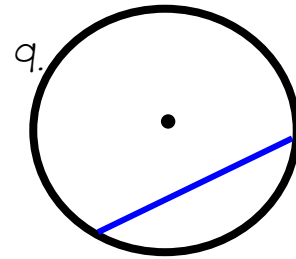
Write the vocabulary term from the word bank that is illustrated in each picture.



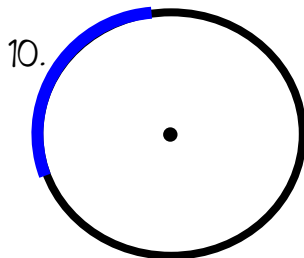
radius



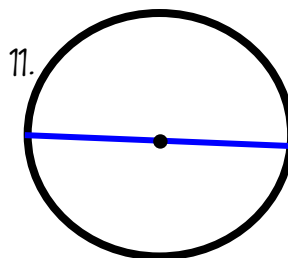
center



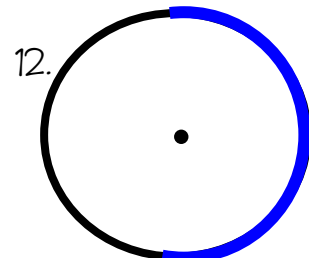
chord



arc



diameter



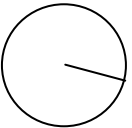
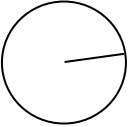
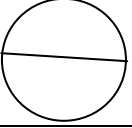
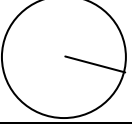
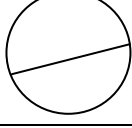
semicircle

Circumference

Write the circumference formula in the box below.

$$C = \pi \cdot d$$

Find the circumference of each circle to the nearest tenth. Use 3.14 for pi. Show your work in the space provided.

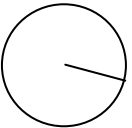
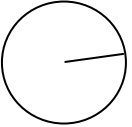
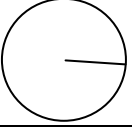
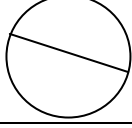
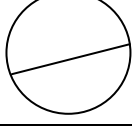
Given Information	Work	Circumference
1. radius = 9 cm		56.5 cm
2. diameter = 4 in		12.6 in
3. diameter = 1 ft		3.1 ft
4. radius = 9.75 cm		61.2 cm
5. diameter = $3\frac{1}{2}$ in		11.0 in
6.  10 cm		62.8 cm
7.  1.5 m		9.4 m
8.  13 ft		40.8 ft
9.  21 in		131.9 in
10.  $6\frac{2}{5}$ cm		20.1 cm

Area of Circles

Write the formula for the area of a circle in the box below.

$$A = \pi \cdot r^2$$

Find the area of each circle to the nearest tenth. Use 3.14 for pi. Show your work in the space provided.

Given Information	Work	Area
1. radius = 19 in		1,133.5 in ²
2. diameter = 3 ft		7.1 ft ²
3. diameter = 2.7 in		5.7 in ²
4. diameter = 3 ¹ / ₄ m		8.3 m ²
5. radius = 28 cm		2,461.8 cm ²
6.  12 cm		452.2 cm ²
7.  2.5 m		19.6 m ²
8.  2 ¹ / ₂ in		19.6 in ²
9.  8 ft		50.2 ft ²
10.  23 in		415.3 in ²

Area and Circumference Word Problems

For each word problem state whether you need to find the **area** or **circumference** and circle the word or phrase that tells you which you are looking for. Then solve the problem. Round your answer to the nearest tenth.

1. You buy a circular rug with a diameter of 8 feet. How much floor space will the rug cover?

$$\text{Area} = 50.2 \text{ ft}^2$$

2. Terry ran around a circular track. If the radius of the track is 200 feet, how far did Terry run?

$$\text{Circumference} = 1,256 \text{ ft}$$

3. Sue had a circular picture that she wanted to frame. If the picture's diameter was 7.5 inches, how much framing material did she need?

$$\text{Circumference} = 23.6 \text{ in}$$

4. Tommy wanted to hang a circular poster on his wall. If the radius of the poster is 2 feet, how much space will the poster take up on the wall?

$$\text{Area} = 12.6 \text{ ft}^2$$

5. Johnny wrapped a piece of string around a can of soup. If the soup's diameter is 4 inches, how long was the string Johnny used to wrap around it?

$$\text{Circumference} = 12.6 \text{ in}$$