

### Collaborative Poster Arrangement

The number in the lower right-hand corner of each piece gives its location.

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Celebrate Pi Day while working with circumference, area, and circle properties. Students color the false statements and create a 27" by 35" collaborative poster that reads "Happy  $\pi$  day."

16 pieces are provided with various statements about circles and pi. Students fill in the areas with false statements and leave the true statements white. Students can use markers, crayons, colored pencils, or highlighters. The color does not matter, so you can use whatever supplies you have available.

This activity is great for a Pi Day party, early finishers, partners, or even small groups. Hint: You might want to print an extra set in case mistakes are made. Students could be required to mark true or false and get approval before coloring. Or, just let students do their best and then go over misconceptions as a class!

Editable Version: In the editable powerpoint, you can change any statement that is not suitable for your class. Be sure to change true statements to true statements, and false statement to false statements so the poster will still spell Happy Pi Day.

**Note: You may not sell or distribute any part of this resource, even if you edit it.**

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle's diameter is half its radius.

A circle is 3-dimensional

A circle with a diameter of 8 inches has an area of  $16\pi$  square inches.

All points on a circle are the same distance from the center.

The area of a circle with a 3 ft radius is about 10.24 sq. ft.

The formula for circumference is  $\pi r^2$ .

Pi is exactly 3.14.

1

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle can have many center points.

A circle is a polygon.

A circle with a circumference of 10 cm has a diameter of approximately 1.6 cm.

$\pi$  is the symbol for circle.

The formula for area of a circle is  $\pi r^2$ .

$\pi$  equals 22.

$\pi$  day is March 14.

Pi is approximately 3.14.

All circles are congruent.

The area of a circle with a 12 cm radius is about 452 sq. cm.

A circle is 2-dimensional.

A circle's diameter is double its radius.

The diameter connects any two points on a circle.

A circle with a 6-foot diameter has a 12-foot radius.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle with an 11-mile radius has a 5.5-mile diameter.

A circle with a radius of 1 inch has a circumference of  $\pi$  inches.

The formula for circumference is  $2\pi r$ .

The formula for area of a circle is  $\pi r^2$ .

The formula for circumference is  $\pi d$ .

A circle with a 20 mm radius has an area of  $40\pi$  mm.

Pi is exactly  $\frac{22}{7}$ .

A circle with a diameter of 3 miles has a circumference of  $3\pi$  miles.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle with a diameter of 3 inches has an area of  $3\pi$  square inches.

A circle with a 1 cm circumference has a 0.5 cm radius.

A circle with a 7 m radius has a 21 m diameter.

Pi is approx.  $\frac{22}{7}$ .

Pi is approximately 3.14.

A circle is a 2-dimensional figure.

A circle's radius is half its diameter.

A radius has 2 endpoints on a circle.

A diameter connects the center of a circle to a point on the circle.

The diameter is greater than the circumference.

A circle has no center.

The formula for circumference is  $\pi d$ .

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

The formula for circumference is  $3\pi r$ .

All circles are congruent.

$\pi \approx 3.14$ .

A circle is a polygon.

A radius connects a point on the circle to the center.

The area of a circle with a 6-ft radius is 36 sq. ft.

A circle with a diameter of 5 cm has a circumference of  $10\pi$  cm.

$\pi \approx \frac{22}{7}$ .

A circle with a radius of 4 inches has an area of  $16\pi$  square inches.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

Pi is rational.

All points on a circle are the same distance from the center.

A circle with a diameter of 6 m has an area of  $6\pi$  square meters.

A circle with a radius of 2 feet has a circumference of  $4\pi$  feet.

A circle's radius is half its diameter.

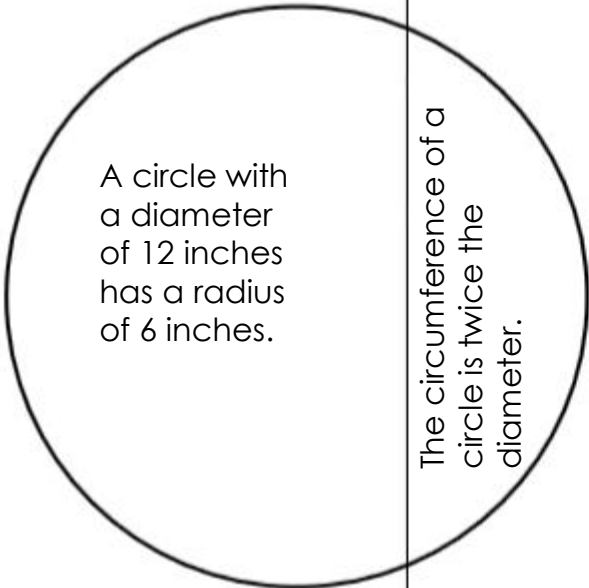
A circle's diameter is half its radius.

A circle with a diameter of 9 yards has a circumference of  $27\pi$  feet.

The formula for circumference is  $\pi r^2$ .

6

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

 <p>A circle with a diameter of 12 inches has a radius of 6 inches.</p>	<p>The circumference of a circle is twice the diameter.</p>	<p>A circle with radius of 5 meters has an area of about 78.5 square meters.</p>	
<p>Pi is approximately 3.14.</p>	<p>A circle with diameter of 11 inches has an area of <math>11\pi</math> square inches.</p>	<p>A radius connects 2 points on a circle.</p>	<p>A circle with diameter of 10 km has a circumference of <math>10\pi</math> km.</p>



Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

The perimeter of a circle is the circumference.

A circle with a 1-foot radius has a circumference of  $24\pi$  inches.

The formula for circumference is  $2\pi r$ .

Pi is irrational.

A circle with a diameter of 4 in. has a radius of 8 in.

The formula for area of a circle is  $\pi r^3$ .

A circle with a 10 cm diameter has a 5 cm radius.

A circle with a radius of 3 feet has a circumference of  $9\pi$  feet.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle with a diameter of 6 inches has an area of  $6\pi$  square inches.

The circumference of a circle is 3 times the diameter.

Pi is approx. 3.14.

A circle with a radius of 9 meters has an area of  $81\pi$  square meters.

The area of a circle with a 12 ft radius is 144 sq. ft.

A circle's diameter is double its radius.

The formula for circumference is  $\pi r$ .

All points on a circle are the same distance from the center.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

The area of a circle with a 3 mile radius is about 28.3 square miles.

Any circle's perimeter is the same as its area.

A circle with a  $10\pi$  inch circumference has a diameter of 10 inches.

Pi is approximately 3.14.

$\pi$  is rational.

A circle's radius is half the diameter.

$$\pi \approx \frac{22}{7}$$

The formula for area of a circle is  $\pi r^2$ .

A circle with a 9-cm radius has an 18-cm diameter.

A circle with a diameter of 2 cm has a perimeter of 12.56 cm.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

All points on a circle are the same distance from the center.

All circles are similar figures.

A circle is 3-dimensional.

A circle with a 10-foot diameter has a 60-inch radius.

A circle with a 1-inch radius has a 2-inch diameter.

The area of a circle with a 1-meter radius is about 3.14 sq. meters.

Pi is approximately 3.14.

A circle with a diameter of 4 inches has an area of  $8\pi$  square inches.

The formula for circumference is  $2\pi d$ .

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

Pi is irrational.

A circle with diameter of 10 km has a circumference of  $5\pi$  km.

A circle with a diameter of 1000 mm has a radius of 0.5 m.

A circle with a diameter of 100 inches has a radius of 200 inches.

The formula for circumference is  $\pi d$ .

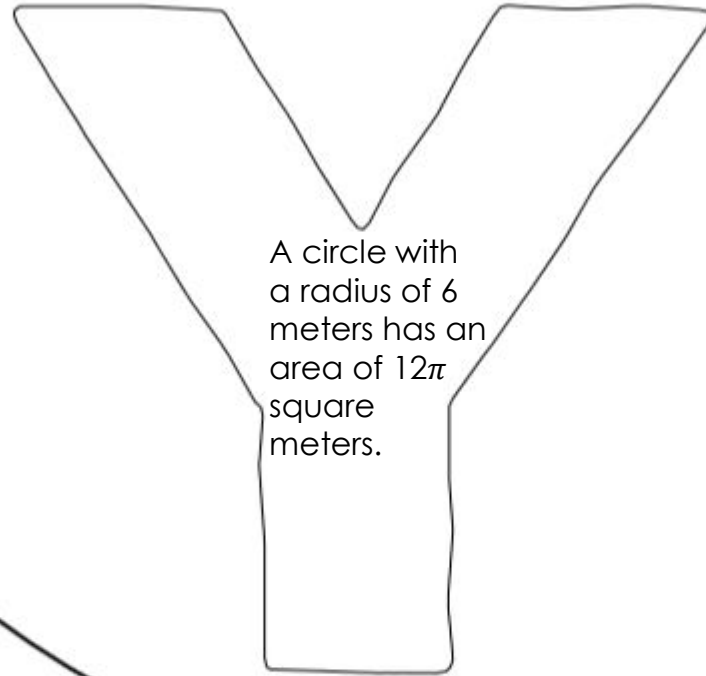
A circle with radius of 3 meters has an area of  $9\pi$  square meters.

A radius connects 2 points on a circle.

A circle with diameter of 13 inches has an area of  $13\pi$  square inches.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

Pi is approx.  
4.13.



A circle with  
a radius of 6  
meters has an  
area of  $12\pi$   
square  
meters.

The circumference of  
a circle with a 12 ft  
radius is  $24\pi$  ft.

A circle with a diameter  
of 2 inches has an area  
of  $\pi$  square inches.

The circumference of a circle is  
twice the diameter.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

The area of a circle with a 5-ft radius is about 78.5 sq. ft.

The formula for circumference is  $\pi r^2$ .

A circle's diameter is half its radius.

All points on a circle are the same distance from the center.

A circle with a 2-cm radius has a circumference of  $4\pi$  cm.

Pi is approx. 3.14.

A circle is 2-dimensional.

A circle with a diameter of 3 inches has an area of  $6\pi$  square inches.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle's circumference is equal to its diameter times pi.

$\pi$  is rational.

$\pi \approx \frac{22}{7}$

The formula for area of a circle is  $\pi r^2$ .

A circle with a  $5\pi$  inch circumference has a diameter of 5 inches.

The area of a circle with a 11 mile radius is about 380 square miles.

A circle with a radius of 10 m has a perimeter of about 31.4 m.

A circle with a 10-cm radius has an 5-cm diameter.

Any circle's perimeter is the same as its area.



Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle's diameter is half its radius.

The formula for circumference is  $3\pi r$ .

A circle with a diameter of 1 inch has a circumference of  $\pi$  inches.

The area of a circle with a 24-inch radius is  $4\pi$  square feet.

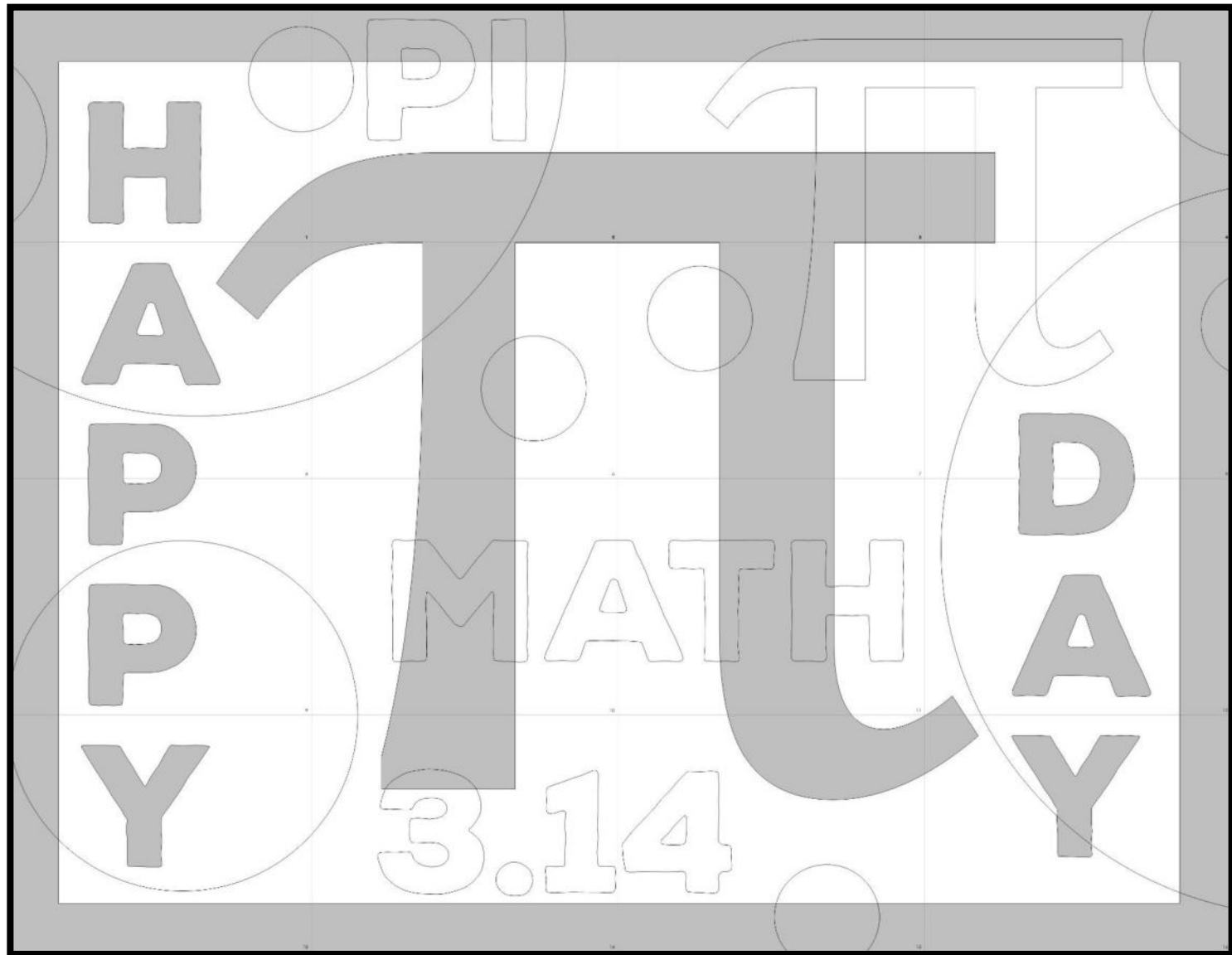
Pi is exactly 3.14.

Not all points on a circle are the same distance from the center.

A circle with a diameter of 14 inches has an area of  $14\pi$  square inches.

# Answer Keys

# Complete poster



Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle's diameter is half its radius.

A circle is 3-dimensional

A circle with a diameter of 8 inches has an area of  $16\pi$  square inches.

All points on a circle are the same distance from the center.

The area of a circle with a 3 ft radius is about 10.24 sq. ft.

The formula for circumference is  $\pi r^2$ .

Pi is exactly 3.14.

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A circle can have many center points.

$\pi$  is the symbol for circle.

The formula for area of a circle is  $\pi r^2$ .

A circle is a polygon.

$\pi$  equals 22.

$\pi$  day is March 14.

Pi is approximately 3.14.

All circles are congruent.

The area of a circle with a 12 cm radius is about 452 sq. cm.

A circle with a circumference of 10 cm has a diameter of approximately 1.6 cm.

A circle is 2-dimensional.

A circle's diameter is double its radius.

The diameter connects any two points on a circle.

A circle with a 6-foot diameter has a 12-foot radius.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle with an 11-mile radius has a 5.5-mile diameter.

A circle with a radius of 1 inch has a circumference of  $\pi$  inches.

The formula for circumference is  $2\pi r$ .

The formula for circumference is  $\pi d$ .

The formula for area of a circle is  $\pi r^2$ .

A circle with a 20 mm radius has an area of  $40\pi$  mm.

Pi is exactly  $\frac{22}{7}$ .

A circle with a diameter of 3 miles has a circumference of  $3\pi$  miles.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle with a diameter of 3 inches has an area of  $3\pi$  square inches.

A circle with a 7 m radius has a 21 m diameter.

A circle with a 1 cm circumference has a 0.5 cm radius.

Pi is approx.  $\frac{22}{7}$ .

Pi is approximately 3.14.

A circle is a 2-dimensional figure.

A circle's radius is half its diameter.

A diameter connects the center of a circle to a point on the circle.

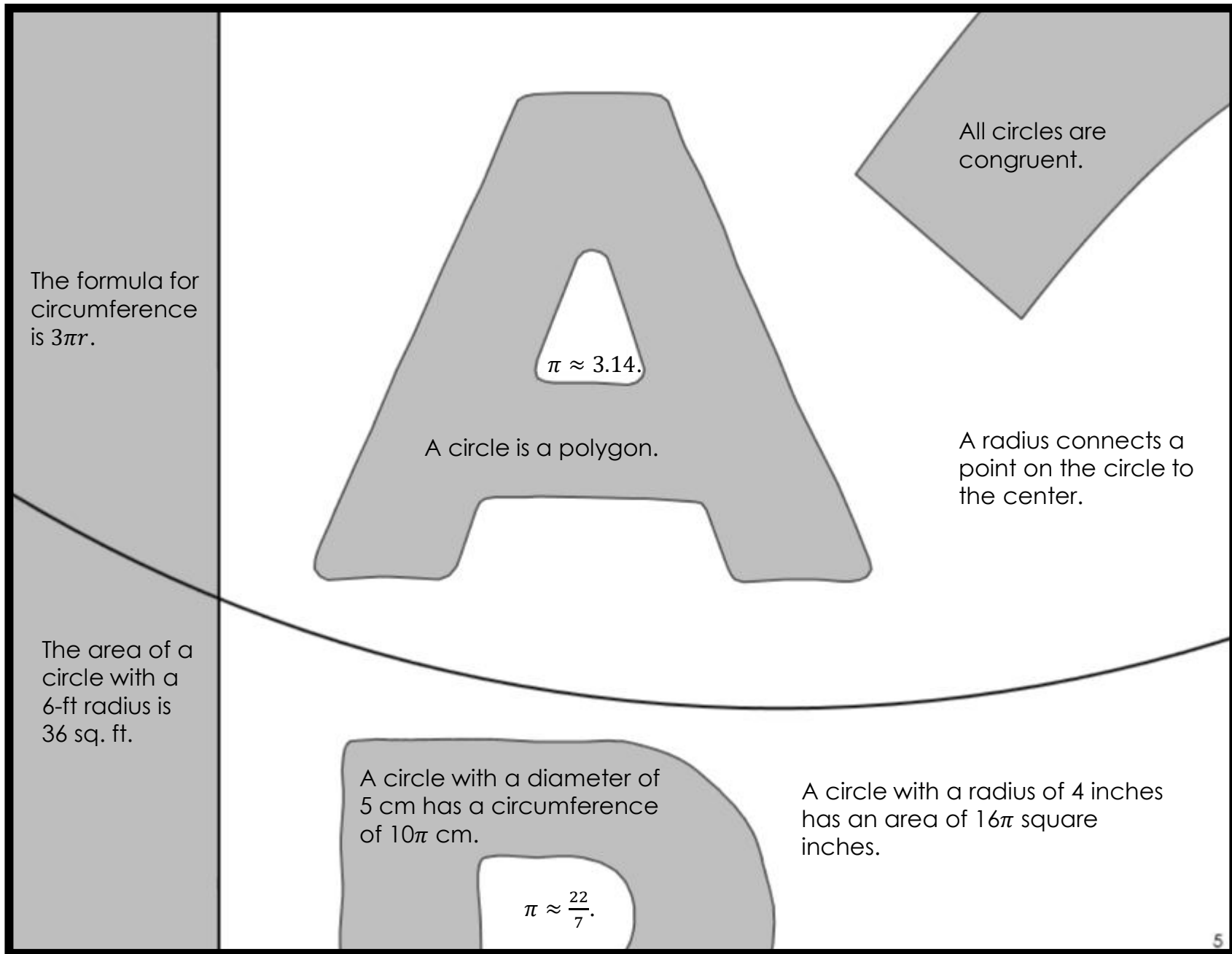
The diameter is greater than the circumference.

A radius has 2 endpoints on a circle.

A circle has no center.

The formula for circumference is  $\pi d$ .

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!





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Pi is rational.

All points on a circle are the same distance from the center.

A circle with a diameter of 6 m has an area of  $6\pi$  square meters.

A circle with a radius of 2 feet has a circumference of  $4\pi$  feet.

A circle's radius is half its diameter.

A circle's diameter is half its radius.

A circle with a diameter of 9 yards has a circumference of  $27\pi$  feet.

The formula for circumference is  $\pi r^2$ .

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle with a diameter of 12 inches has a radius of 6 inches.

The circumference of a circle is twice the diameter.

A circle with radius of 5 meters has an area of about 78.5 square meters.

A radius connects 2 points on a circle.

A circle with diameter of 11 inches has an area of  $11\pi$  square inches.

A circle with diameter of 10 km has a circumference of  $10\pi$  km.

Pi is approximately 3.14.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

The perimeter of a circle is the circumference.

A circle with a 1-foot radius has a circumference of  $24\pi$  inches.

The formula for circumference is  $2\pi r$ .

Pi is irrational.

The formula for area of a circle is  $\pi r^3$ .

A circle with a 10 cm diameter has a 5 cm radius.

A circle with a diameter of 4 in. has a radius of 8 in.

A circle with a radius of 3 feet has a circumference of  $9\pi$  feet.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle with a diameter of 6 inches has an area of  $6\pi$  square inches.

The circumference of a circle is 3 times the diameter.

Pi is approx. 3.14.

A circle with a radius of 9 meters has an area of  $81\pi$  square meters.

A circle's diameter is double its radius.

The formula for circumference is  $\pi r$ .

All points on a circle are the same distance from the center.

The area of a circle with a 12 ft radius is 144 sq. ft.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

The area of a circle with a 3 mile radius is about 28.3 square miles.

Any circle's perimeter is the same as its area.

A circle with a  $10\pi$  inch circumference has a diameter of 10 inches.

$\pi$  is approximately 3.14.

$\pi$  is rational.

A circle's radius is half the diameter.

$\pi \approx \frac{22}{7}$

The formula for area of a circle is  $\pi r^2$ .

A circle with a 9-cm radius has an 18-cm diameter.

A circle with a diameter of 2 cm has a perimeter of 12.56 cm.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

All points on a circle are the same distance from the center.

All circles are similar figures.

A circle with a 1-inch radius has a 2-inch diameter.

Pi is approximately 3.14.

A circle is 3-dimensional.

A circle with a diameter of 4 inches has an area of  $8\pi$  square inches.

The area of a circle with a 1-meter radius is about 3.14 sq. meters.

A circle with a 10-foot diameter has a 60-inch radius.

The formula for circumference is  $2\pi d$ .

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

Pi is irrational.

A circle with diameter of 10 km has a circumference of  $5\pi$  km.

A circle with a diameter of 1000 mm has a radius of 0.5 m.

A circle with a diameter of 100 inches has a radius of 200 inches.

The formula for circumference is  $\pi d$ .

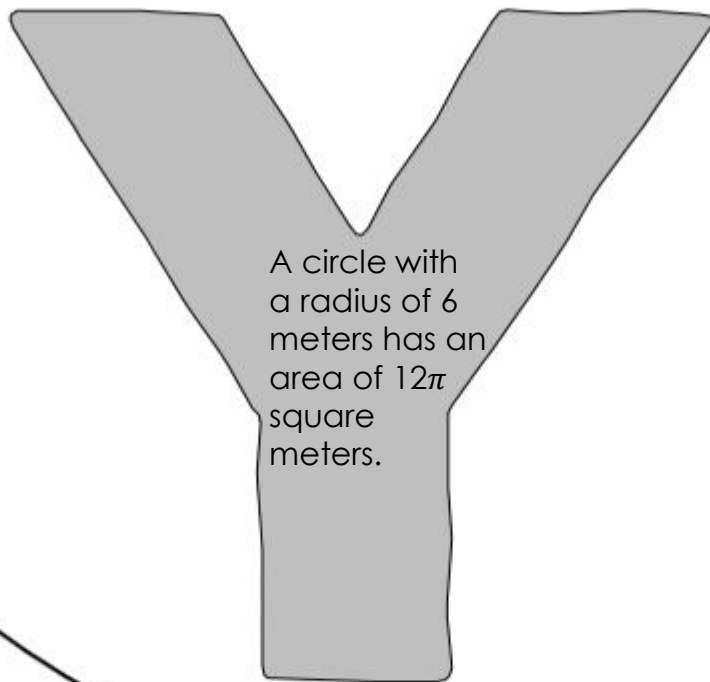
A circle with diameter of 13 inches has an area of  $13\pi$  square inches.

A radius connects 2 points on a circle.

A circle with radius of 3 meters has an area of  $9\pi$  square meters.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

Pi is approx.  
4.13.



The circumference of a circle with a 12 ft radius is  $24\pi$  ft.

A circle with a diameter of 2 inches has an area of  $\pi$  square inches.

The circumference of a circle is twice the diameter.



Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

The area of a circle with a 5-ft radius is about 78.5 sq. ft.

The formula for circumference is  $\pi r^2$ .

A circle's diameter is half its radius.

All points on a circle are the same distance from the center.

A circle with a 2-cm radius has a circumference of  $4\pi$  cm.

Pi is approx. 3.14.

A circle is 2-dimensional.

A circle with a diameter of 3 inches has an area of  $6\pi$  square inches.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle's circumference is equal to its diameter times pi.

$\pi$  is rational.

$\pi \approx \frac{22}{7}$

The formula for area of a circle is  $\pi r^2$ .

A circle with a  $5\pi$  inch circumference has a diameter of 5 inches.

The area of a circle with a 11 mile radius is about 380 square miles.

A circle with a radius of 10 m has a perimeter of about 31.4 m.

A circle with a 10-cm radius has an 5-cm diameter.

Any circle's perimeter is the same as its area.

Fill in any sections that contain a FALSE statement. Leave true statement sections white. When your piece is complete, cut it out and place it in the correct location. When all pieces are complete, a message will appear!

A circle's diameter is half its radius.

The area of a circle with a 24-inch radius is  $4\pi$  square feet.

The formula for circumference is  $3\pi r$ .

Pi is exactly 3.14.

A circle with a diameter of 1 inch has a circumference of  $\pi$  inches.

Not all points on a circle are the same distance from the center.

A circle with a diameter of 14 inches has an area of  $14\pi$  square inches.



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Follow my blog: [riseoverrun.tpt.wordpress.com](https://www.riseoverrun.tpt.wordpress.com)

Feedback is greatly appreciated!

Suggested Resources:

