Unit: Plane Geometry & Similarity
Find Someone Who

Name_____
Date_____ Pd_____

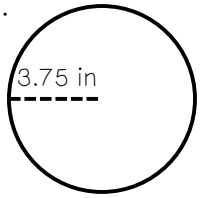
CIRCUMFERENCE & AREA OF A CIRCLE

Find someone who can solve each of the problems below. Work the problem on each others paper and then sign your name.

1 Find the formula for the area of a circle.

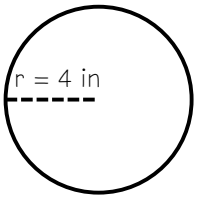
Name:

2 Find the diameter in the figure below.



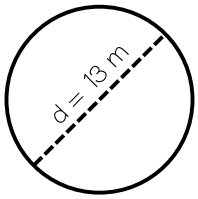
Name:

3 Find the area of the figure below.



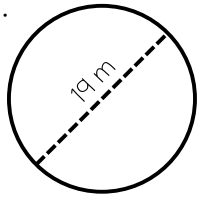
Name:

4 Find the circumference of the figure below.



Name:

5 Find the radius in the figure below.

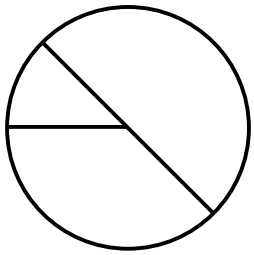


Name:

6 The area of a circle is 27 square meters. Determine the radius. Use 3 for **π**.

Name:

7 Label the parts of the circle below.



Name:

8 Explain how the diameter and circumference are related.

Name:

9 A circular rug covers 48 square feet. What is the radius? Use 3 for **π**.

Name:

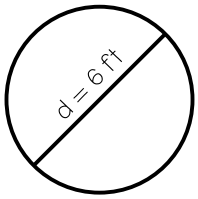
10 Find a formula for the circumference of a circle.

Name:

11 The circumference of a circle is 15 meters. Determine the diameter. Use 3 for π.

Name:

12 Find the area of the circle below.



Name:

13 Find the value of π to the nearest hundredth.

Name:

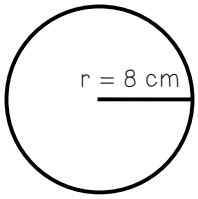
14 Write an equation to represent how the diameter and radius are related.

Name:

15 A pizza is measured in diameter. If a large measures 14 inches across, then how many square inches of pizza are in a large?

Name:

16 Find the circumference of the circle below.



Name:

17 Explain the relationship between the area and the radius of a circle.

Name:

18 A railroad track goes in a circular pattern around the city. If it travels 60 miles around the city, then what is the distance between the track and the center of the city? Use 3 for π.

Name:

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Find Someone Who

Name KEY
Date _____ Pd _____

CIRCUMFERENCE & AREA OF A CIRCLE

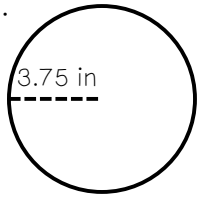
Find someone who can solve each of the problems below. Work the problem on each others paper and then sign your name.

1 Find the formula for the area of a circle.

$A=\pi r^2$

Name:

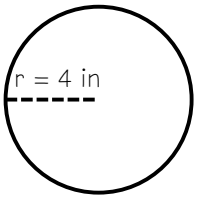
2 Find the diameter in the figure below.



7.5 in

Name:

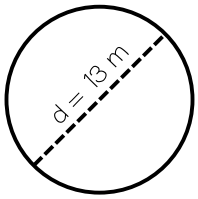
3 Find the area of the figure below.



$50.24\ in^2$

Name:

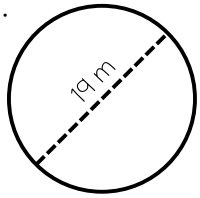
4 Find the circumference of the figure below.



40.82 m

Name:

5 Find the radius in the figure below.



9.5 m

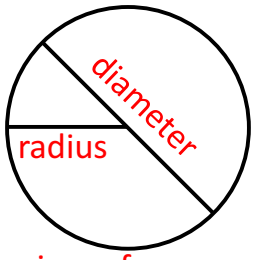
Name:

6 The area of a circle is 27 square meters. Determine the radius. Use 3 for **π**.

3m

Name:

7 Label the parts of the circle below.



Name:

8 Explain how the diameter and circumference are related.

The circumference is equal to the diameter times π. This is where we get the formula C = πd.

Name:

9 A circular rug covers 48 square feet. What is the radius? Use 3 for **π**.

4 ft

Name:

10 Find a formula for the circumference of a circle.

C=2πr
C=πd

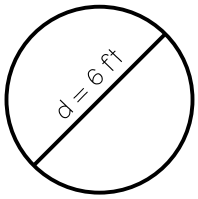
Name:

11 The circumference of a circle is 15 meters. Determine the diameter. Use 3 for π.

5 m

Name:

12 Find the area of the circle below.



28.26 ft²

Name:

13 Find the value of π to the nearest hundredths.

3.14

Name:

14 Write an equation to represent how the diameter and radius are related.

r = d/2
d = 2r

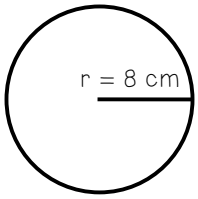
Name:

15 A pizza is measured in diameter. If a large measures 14 inches across, how many square inches of pizza are in a large?

153.86 in²

Name:

16 Find the circumference of the circle below.



50.24 cm

Name:

17 Explain the relationship between the area and the radius of a circle.

The radius of a circle is squared, forming a square. That square will fit into the circle exactly π times. That is where we get the formula A = πr².

Name:

18 A railroad track goes in a circular pattern around the city. If it travels 60 miles around the city, what is the distance between the track and the center of the city? Use 3 for π.

10 miles

Name: