

Geometry

Task Cards 7.G.4

20 Task Cards, Recording Sheet, Answer Sheet

7.G.4

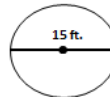
Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.

5 Determine the circumference of the following circle:



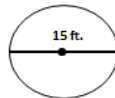
7.G.4

6 Determine the circumference of the following circle:



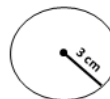
7.G.4

Determine the area of the following circle:



7.G.4

8 Determine the area of the following circle:



7.G.4

13 Jay's Pizza Shop offers a medium pizza with a diameter of 10 inches. What is the circumference of the pizza?

14 A Ferris wheel has a radius of 72 feet. What is the distance a passenger will travel one time around the Ferris wheel?

7.G.4

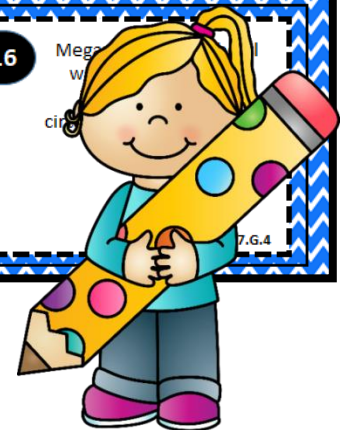
16

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7.G.4



Created by:
Math in the Midwest

7.G.4

Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.

1

Write down the formula for the area of a circle.

7.G.4

2

Write down the formula for the circumference of a circle.

7.G.4

3

Find the ratio of the circumference to the diameter of the circle if the:

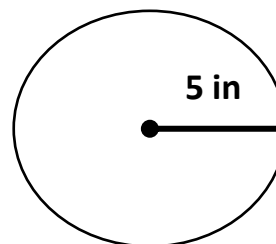
Circumference = 3726 ft.

Diameter = 1185.miles

7.G.4

4

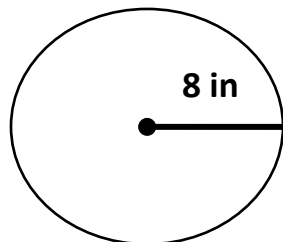
Determine the area of the following circle:



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5

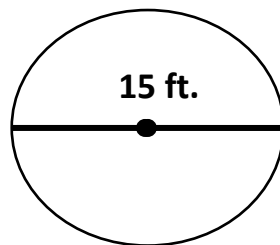
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7.G.4

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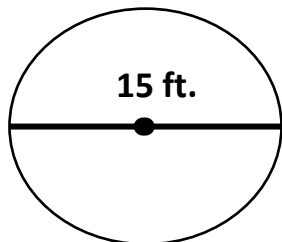
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7.G.4

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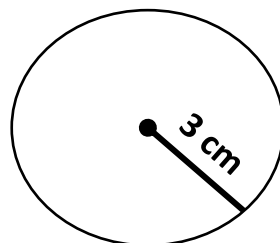
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7.G.4

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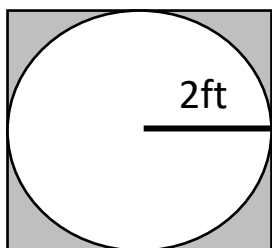
Determine the area of the following circle:



7.G.4

9

Determine the area of the shaded region.



7.G.4

10

An amusement park has a diameter of 1200 feet and has a circular walking path around the entire park. If you walk around the entire park 5 times. How far did you walk?

7.G.4

11

Rose's circular garden needs to have new soil added down for the spring. She knows the diameter of the garden is 8 feet. How much total soil will she need to purchase?

7.G.4

12

The Earth has a diameter of 7,917.5 miles. What is the distance a plane would have to fly if it could fly around the entire equator?

7.G.4

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Jay's Pizza Shop offers a medium pizza with a diameter of 10 inches. What is the circumference of the pizza?

7.G.4

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A Ferries wheel has a radius of 72 feet. What is the distance a passenger will travel one time around the ferries wheel?

7.G.4

15

Charlie made hamburgers for his family and they each had a diameter of 7 cm. If he made 12 hamburgers. What is the total area for all 12?

7.G.4

16

Megan purchases a bowl with a diameter of 12 inches. What is the circumference of the bowl?

7.G.4

17

True or False

Circumference is the distance around a circle.

7.G.4

18

True or False

The diameter of a circle is the distance from the center of the circle to the outside edge.

7.G.4

19

True or False

The diameter of a circle is the longest distance across a circle.

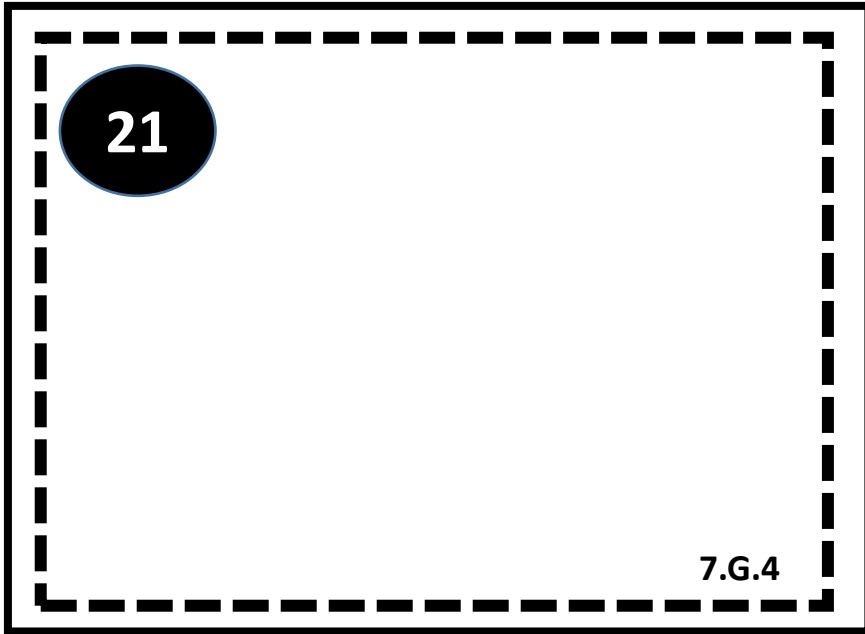
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True or False

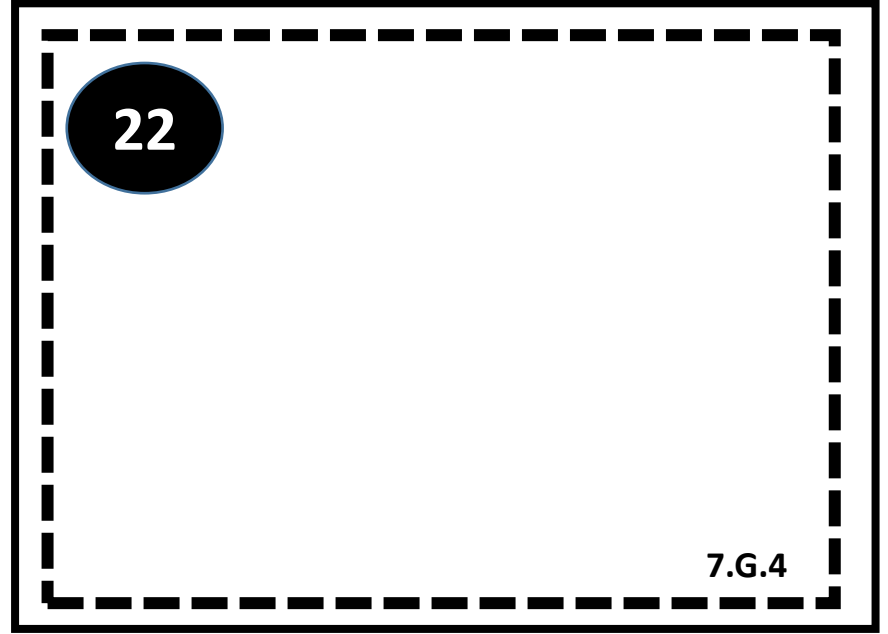
The diameter of a circle is twice the radius of the circle.

7.G.4



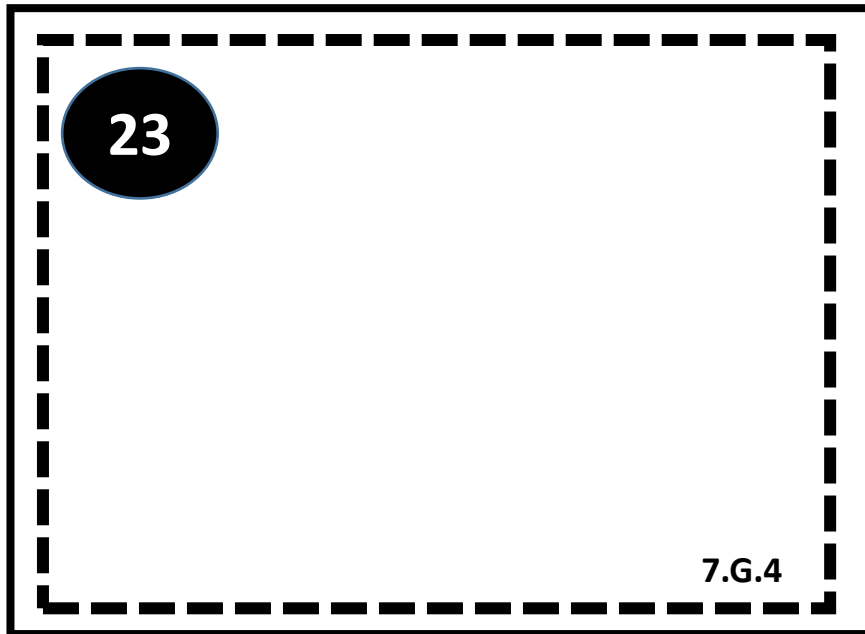
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7.G.4



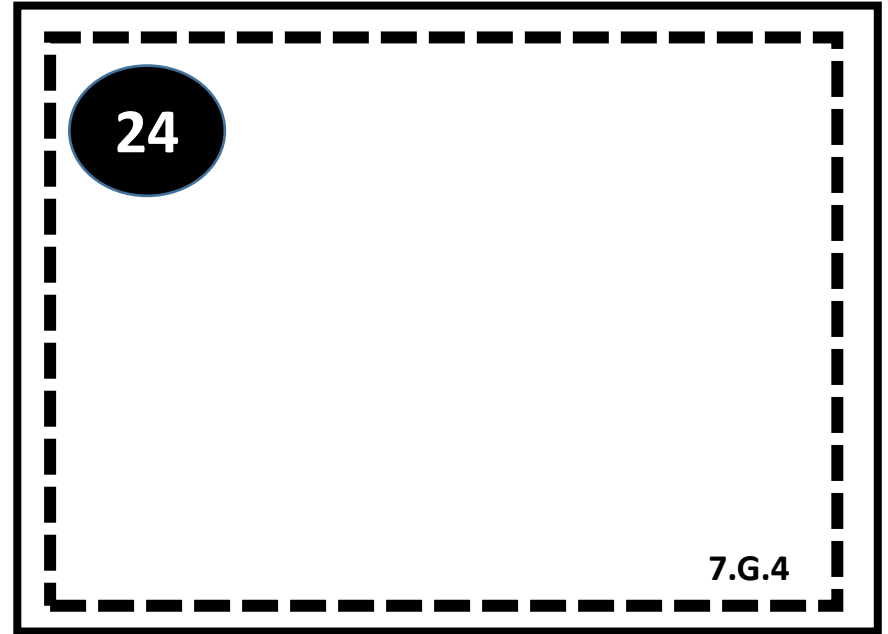
22

7.G.4



23

7.G.4



24

7.G.4

1

Write down the formula for the area of a circle.

7.G.4

2

Write down the formula for the circumference of a circle.

7.G.4

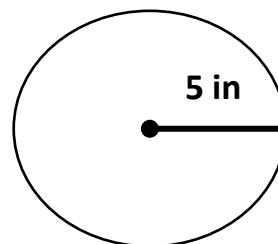
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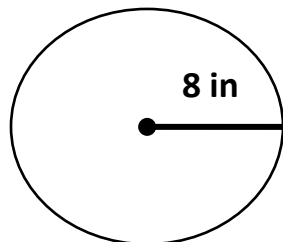
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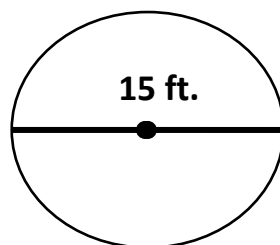
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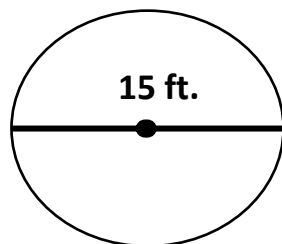
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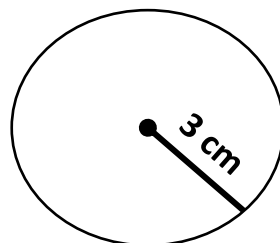
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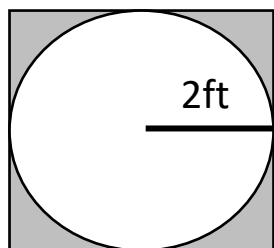
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7.G.4

21

7.G.4

22

7.G.4

23

7.G.4

24

7.G.4

Name _____

Hour _____

7.G.4 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	8.	9.

Name _____

Hour _____

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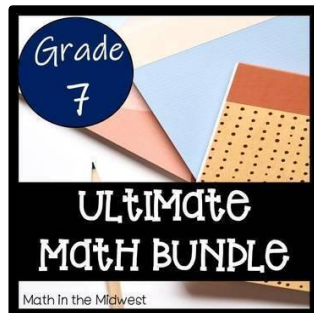
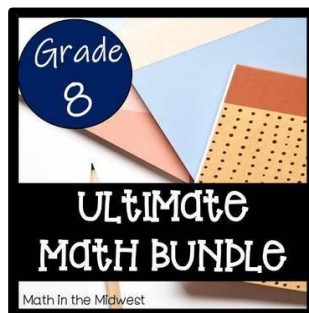
Answer Key

Number	Answer
1	$A = \pi r^2$
2	$C = \pi d$
3	π or 3.14
4	$A = 78.5in^2$
5	50.24 in
6	47.1 ft
7	$176.63ft^2$
8	$28.26cm^2$
9	$3.44ft^2$
10	At least 50.24 feet of soil

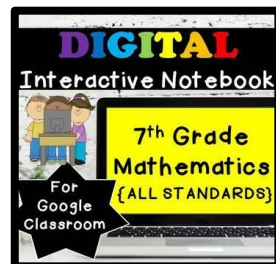
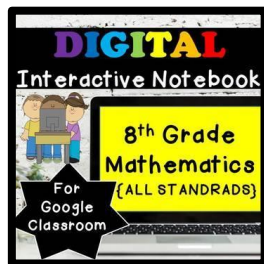
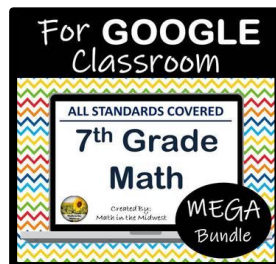
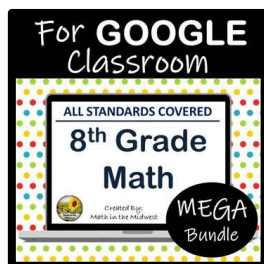
Number	Answer
11	18,840 feet
12	24,860.95 miles
13	31.4 inches
14	452.16 feet
15	$461.58cm^2$
16	37.68 inches
17	True
18	False
19	True
20	True

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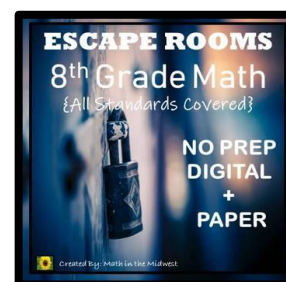
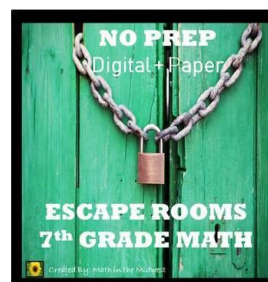


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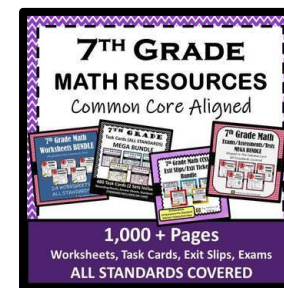
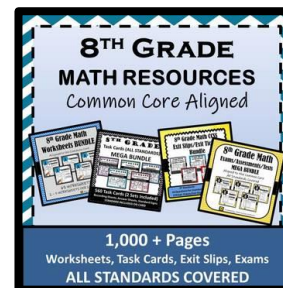


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