8.G.9

Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.

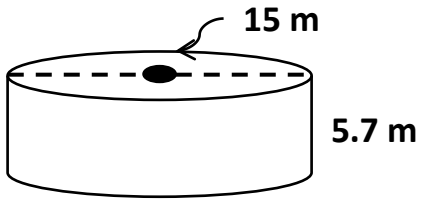
1

What is the formula for the volume of a cylinder?

8.G.9

2

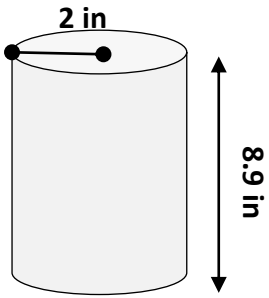
Determine the volume of the following cylinder with the given dimensions.



8.G.9

3

Determine the volume of the following cylinder with the given dimensions.



8.G.9

4

Determine the volume of a cylinder if it has a diameter of 7 feet and a height of 18 feet.

8.G.9

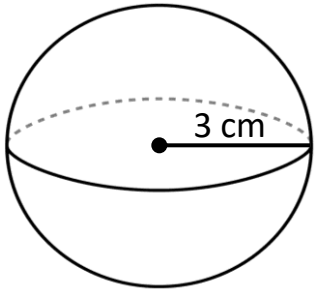
5

What is the formula for the volume of a sphere?

8.G.9

6

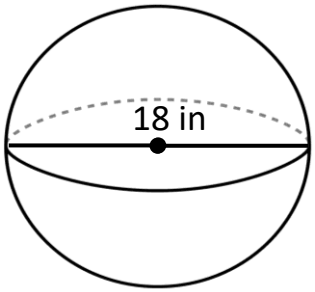
Determine the volume of the sphere given the following dimensions.



8.G.9

7

Determine the volume of the sphere given the following dimensions.



8.G.9

8

Determine the volume of a sphere if it has a diameter of 5 feet.

8.G.9

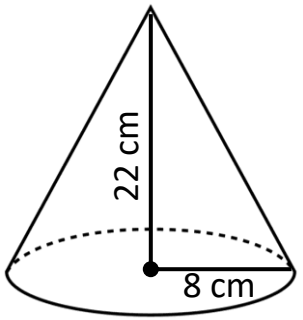
9

What is the formula for the volume of a cone?

8.G.9

10

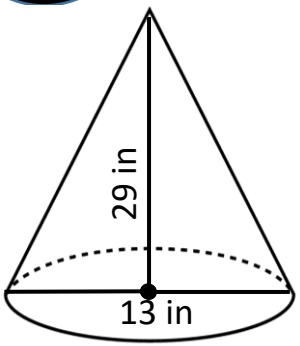
Determine the volume of the cone with the given dimensions:



8.G.9

11

Determine the volume of the cone with the given 'imensions:



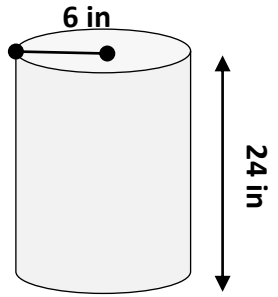
8.G.9

12

Find the volume of an ice cream cone if it has a radius of 4 cm and a height of 9 cm.

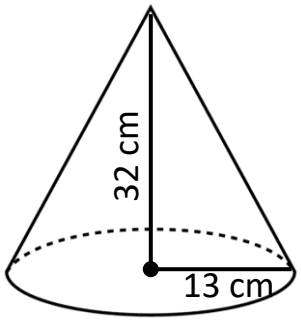
8.G.9

13 Find the volume of the following figure:



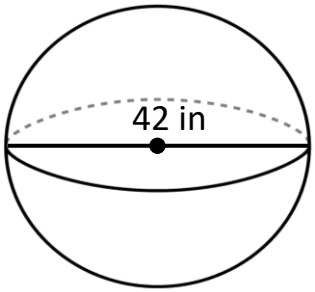
8.G.9

14 Find the volume of the following figure:



8.G.9

15 Find the volume of the following figure:



8.G.9

16 Find the volume of a hemisphere if the diameter is 17 inches.

8.G.9

17

Find the volume of the Earth if the radius is 3,959 miles.

8.G.9

18

Find the volume of a baseball if the diameter is 2.86 inches.

8.G.9

19

Find the volume of the cake if the radius is 8 inches and the height is 5 inches.

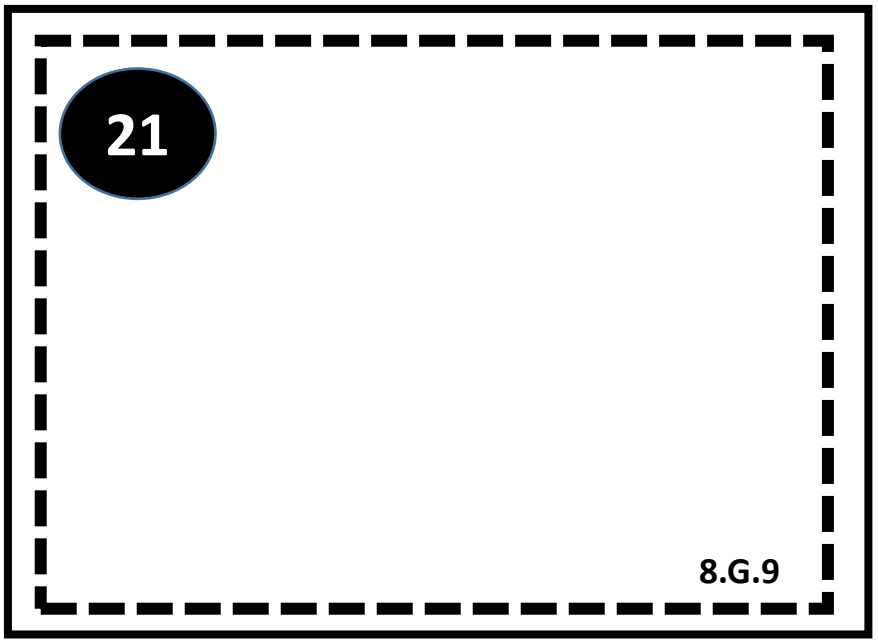
8.G.9

20

Find the volume of the ice cream cone if it has a diameter of 4 inches and a height of 7 inches.

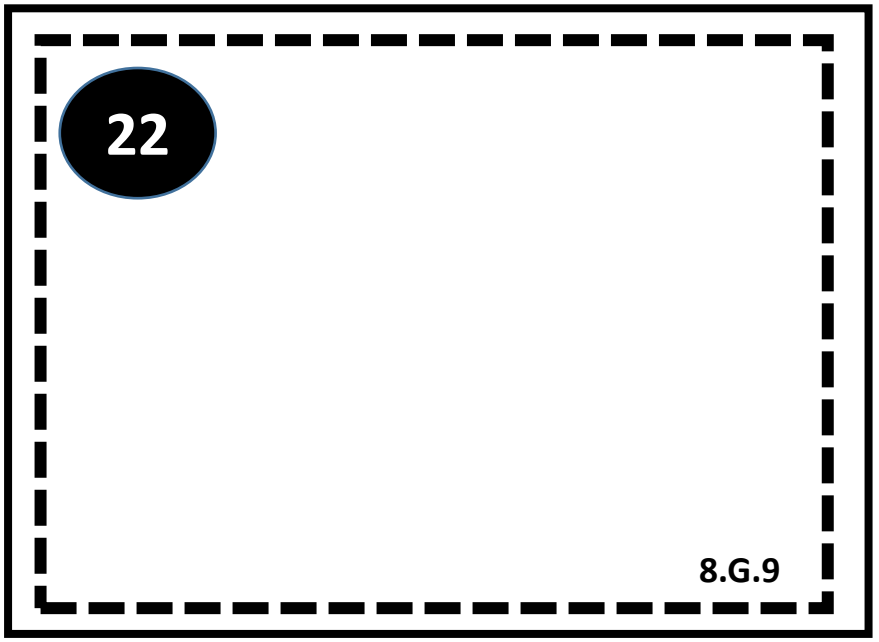
8.G.9

21



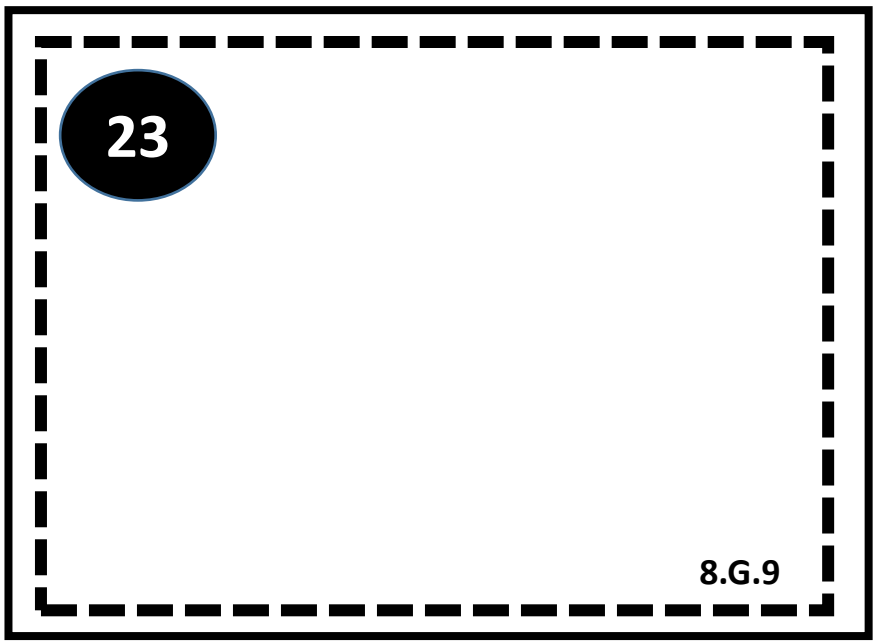
8.G.9

22



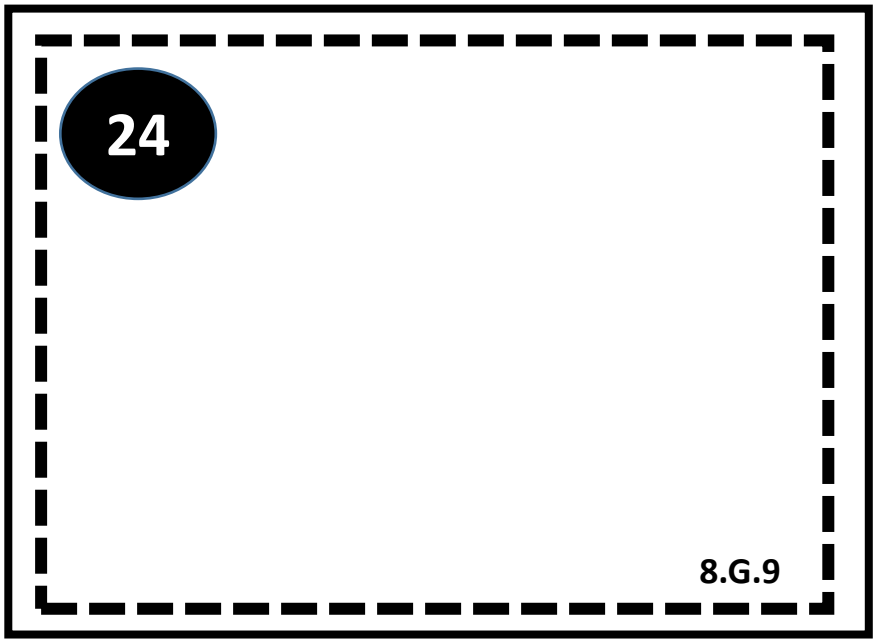
8.G.9

23



8.G.9

24



8.G.9

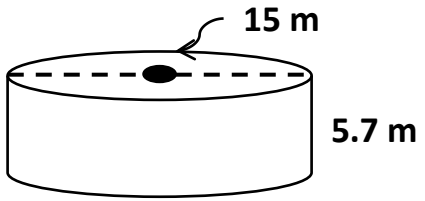
1

What is the formula for the volume of a cylinder?

8.G.9

2

Determine the volume of the following cylinder with the given dimensions.



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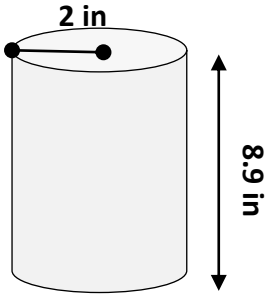

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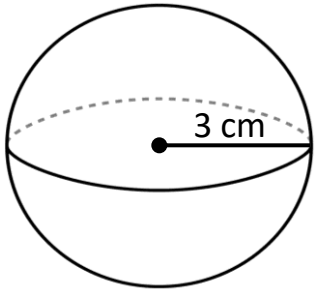

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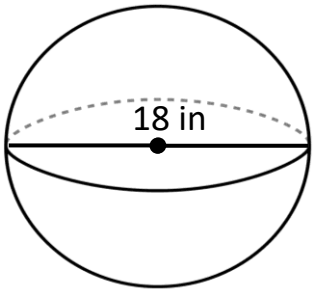

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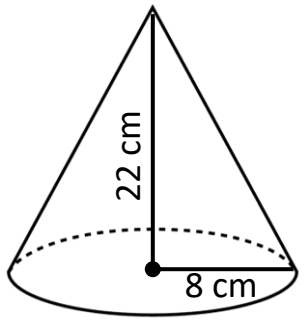

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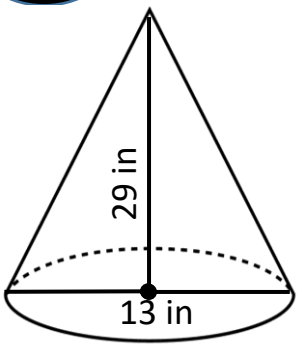

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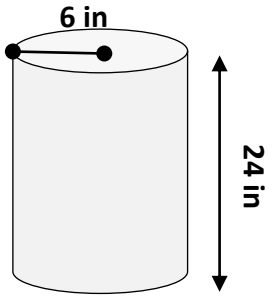
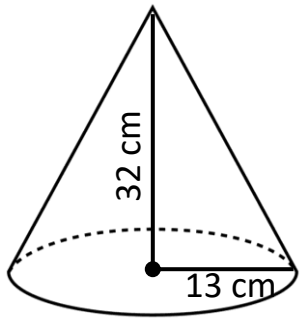


8.G.9

14 Find the volume of the following figure:



8.G.9

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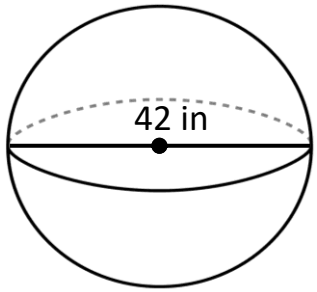

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8.G.9

21

8.G.9

22

8.G.9

23

8.G.9

24

8.G.9

Name _____ Hour _____

8.G.9 Recording Sheet

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

Name _____ Hour _____

10.	11.	12.
13.	14.	15.
16.	17.	18.
19.	20.	

Answer Key

Number	Answer
1	$V = \pi r^2 h$
2	$V = 1,006.76 m^3$
3	$V = 111.78\ in^3$
4	$V = 692.37\ ft^3$
5	$V = \frac{4}{3}\pi r^3$
6	$V = 113.04 cm^3$
7	$V = 3,052.08 in^3$
8	$V = 65.42 ft^3$
9	$V = \frac{\pi r^2 h}{3}$
10	$V = 1,473.71 cm^3$

Number	Answer
11	$V = 1,282.43 in^3$
12	$V = 150.72 cm^3$
13	$V = 2,712.96 in^3$
14	$V = 5,660.37 cm^3$
15	$V = 38,772.72 in^3$
16	$V = 1,285.57 in^3$
17	$V = 2.598 \times 10^{11}$
18	$V = 12.24\ in^3$
19	$V = 1,004.8\ in^3$
20	$V = 29.31\ in^3$

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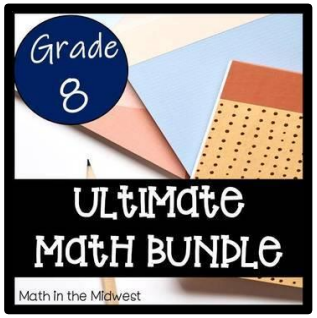
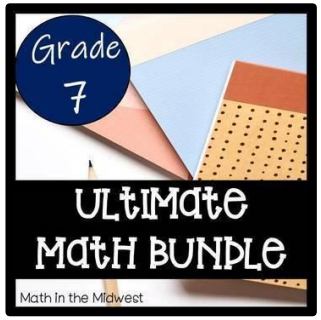
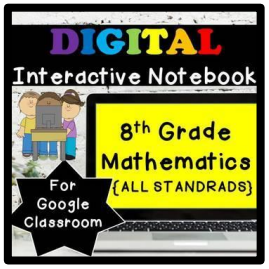
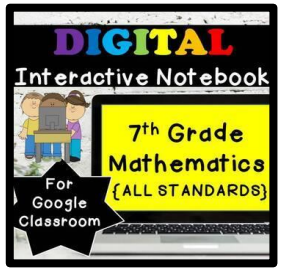


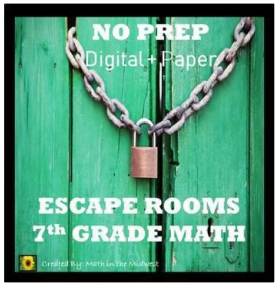


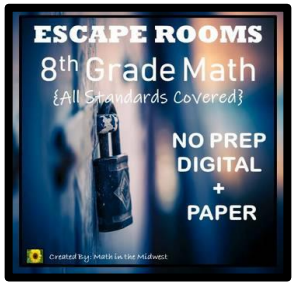
Digital Bundles:

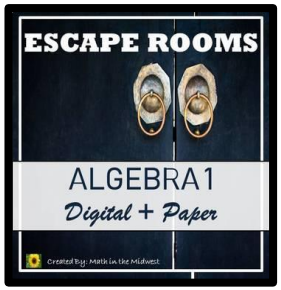




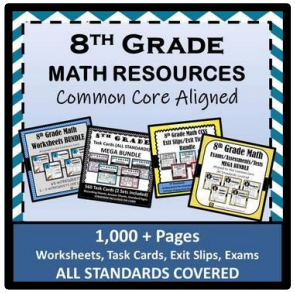
Escape Rooms:

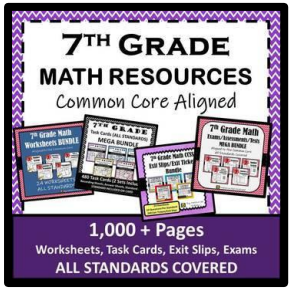






PDF Bundles:





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