

# Geometry

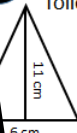
## Task Cards 7.G.6

20 Task Cards, Recording Sheet, Answer Sheet

**7.G.6**

Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

1 Find the area of the following triangle:



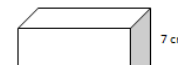
7.G.6

Find the area of the following pentagon:



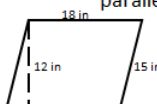
7.G.6

5 Find the surface area of the rectangular prism:



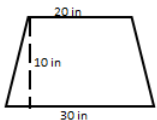
7 cm

2 Find the area of the following parallelogram:



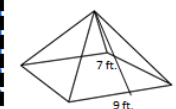
7.G.6

4 Find the area of the following trapezoid:



7.G.6

6 Find the surface area of the square pyramid:



7.G.6

8 Find the area of the cylinder:



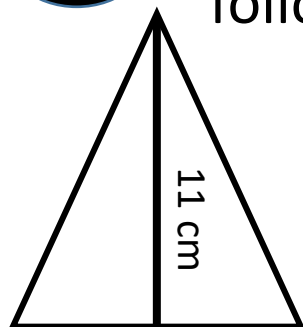
Created by:  
Math in the Midwest

# 7.G.6

Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

1

Find the area of the following triangle:

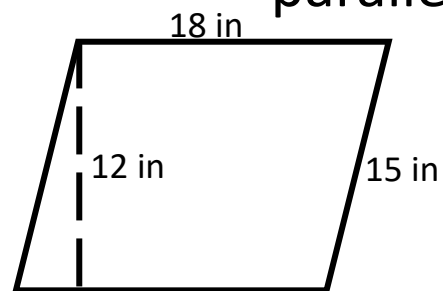


6 cm

7.G.6

2

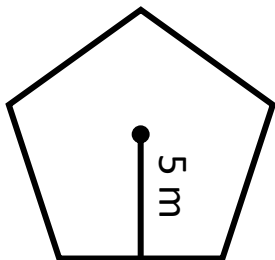
Find the area of the following parallelogram:



7.G.6

3

Find the area of the following pentagon:

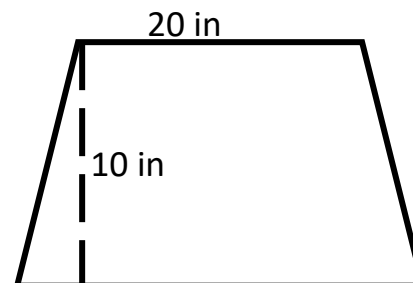


7 m

7.G.6

4

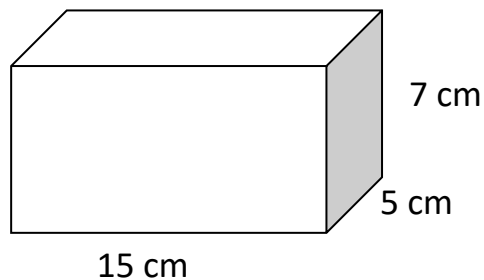
Find the area of the following trapezoid:



7.G.6

5

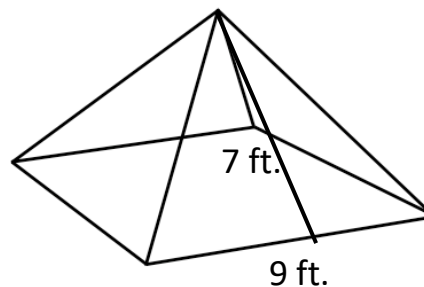
Find the surface area of the rectangular prism:



7.G.6

6

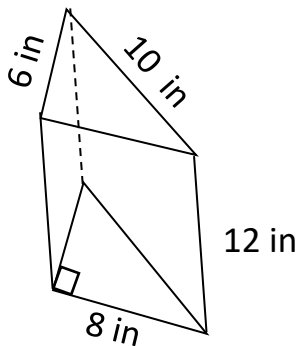
Find the surface area of the square pyramid:



7.G.6

7

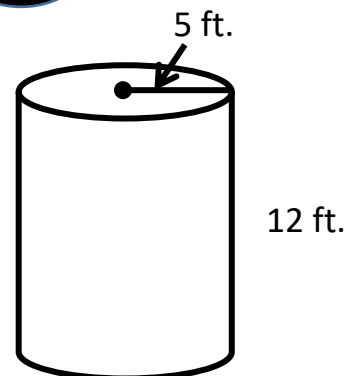
Find the surface area of the right prism:



7.G.6

8

Find the area of the cylinder:



7.G.6

9

If a cube has a surface area of  $150in^2$ , what is its volume?

7.G.6

10

A right isosceles triangle has an area of  $84.5in^2$ . How tall is it?

7.G.6

11

You are wrapping a cube shape present that is 1.5 feet tall. How much wrapping paper will you need to wrap the entire present?

7.G.6

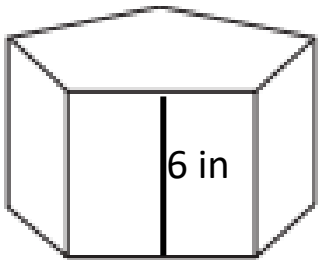
12

Caden wants to paint his warehouse that is shaped like a rectangular prism that's 45 feet tall, 30 feet wide, and 38 feet long. What will it cost him to paint the outside walls and roof if paint cost \$0.75 per square foot?

7.G.6

**13**

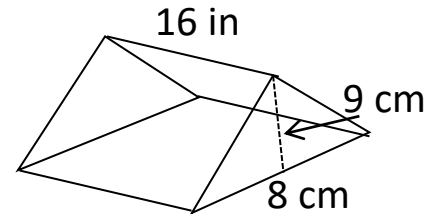
Find the volume of the following figure:



7.G.6

**14**

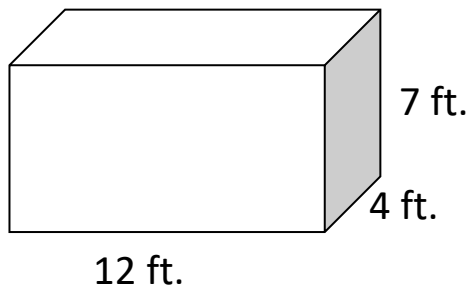
Find the volume of the following figure:



7.G.6

**15**

Find the volume of the following figure:



7.G.6

**16**

A truck has a trailer that has a length of 20 ft., a width of 8 ft. and a height of 12 ft. What is the volume of the trailer?

7.G.6

17

What is the formula for the finding the area of a triangle?

7.G.6

18

What is the formula for the finding the volume of a rectangular prism?

7.G.6

19

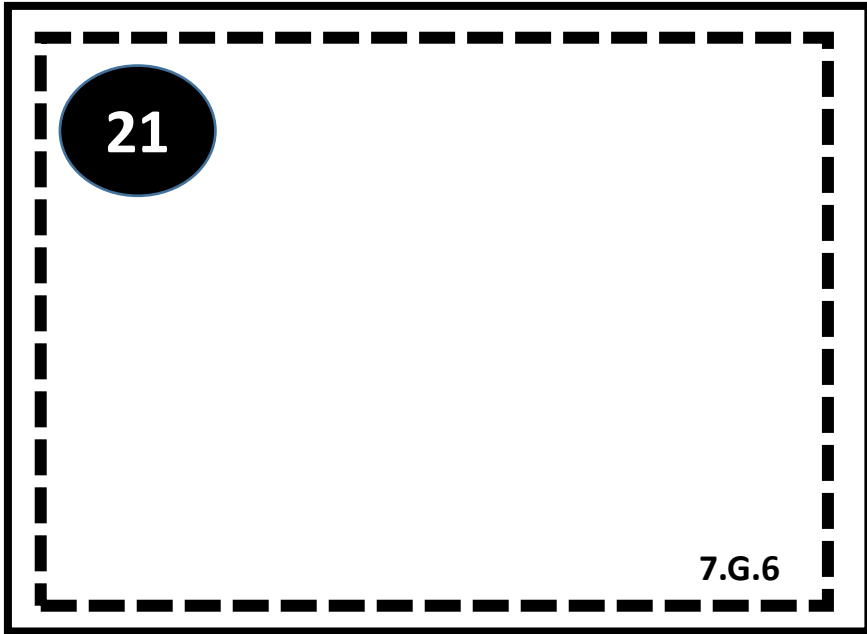
What is the formula for finding the surface area of a rectangular prism?

7.G.6

20

What is the formula for finding the surface area of a cube?

7.G.6



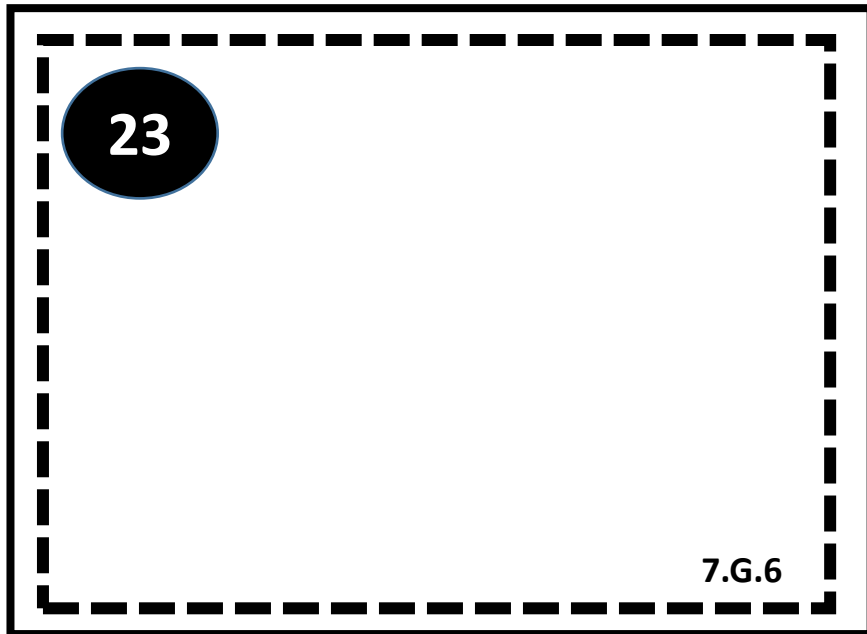
21

7.G.6



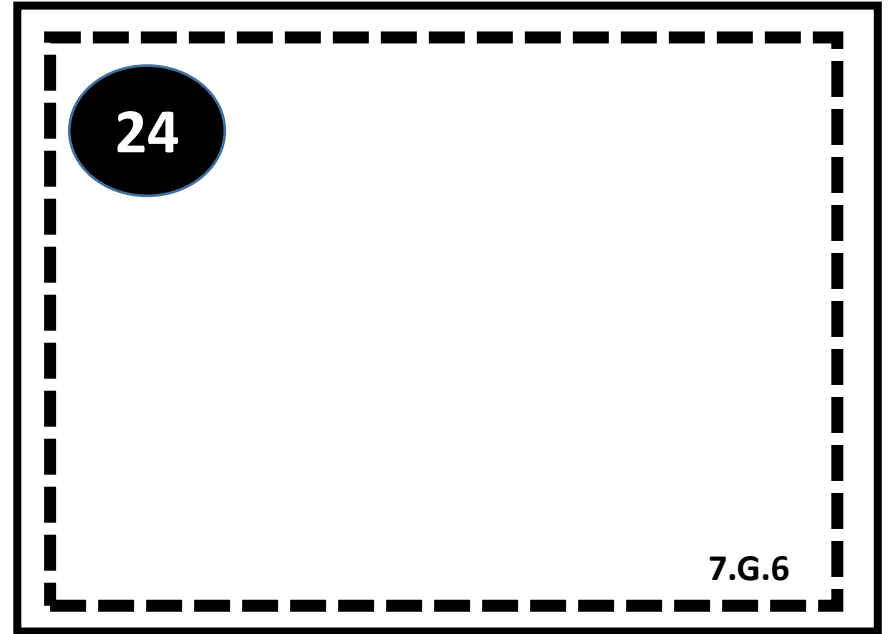
22

7.G.6



23

7.G.6



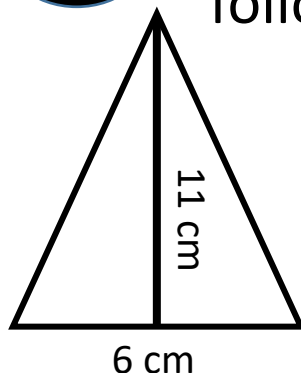
24

7.G.6



1

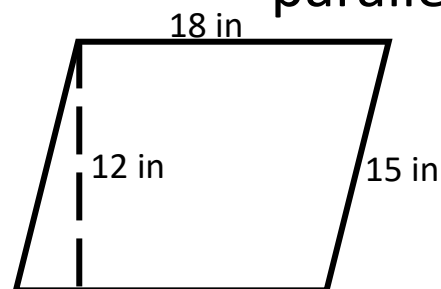
Find the area of the following triangle:



7.G.6

2

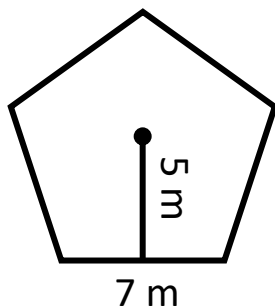
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7.G.6

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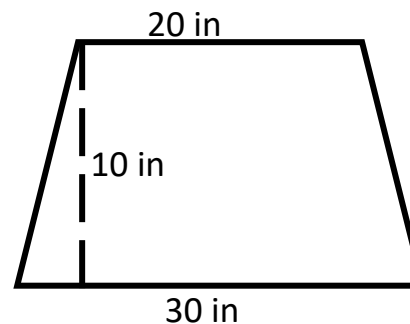
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7.G.6

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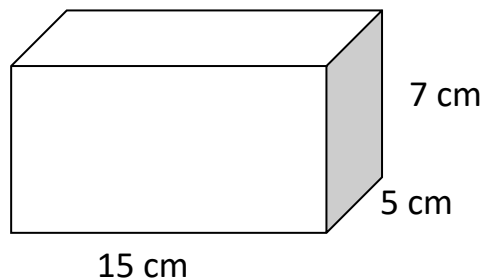
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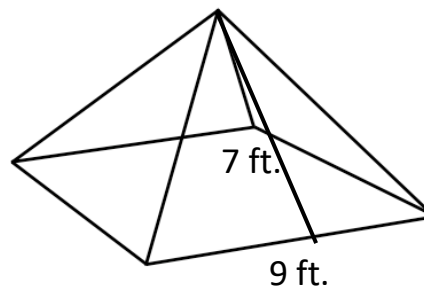
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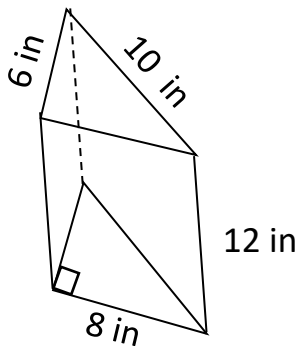
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7.G.6

7

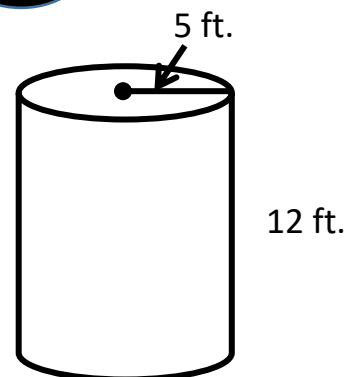
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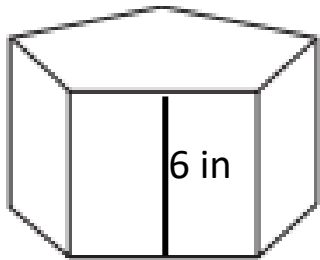
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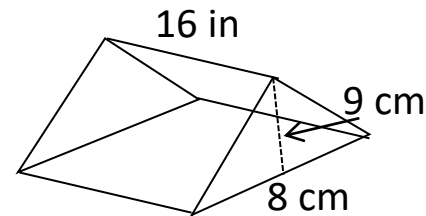
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7.G.6

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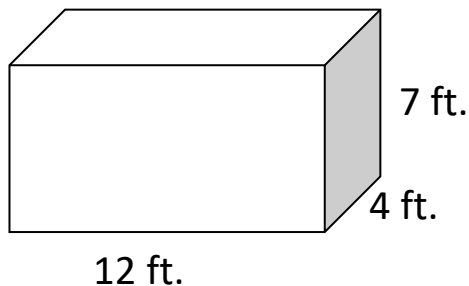
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7.G.6

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7.G.6

21

7.G.6

22

7.G.6

23

7.G.6

24

7.G.6

Name \_\_\_\_\_

Hour \_\_\_\_\_

# 7.G.6 Recording Sheet

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

Name \_\_\_\_\_

Hour \_\_\_\_\_

10.

11.

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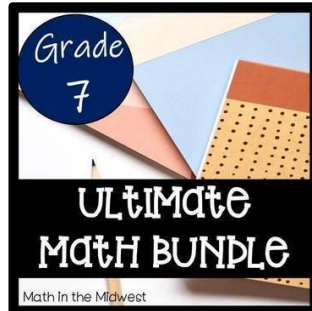
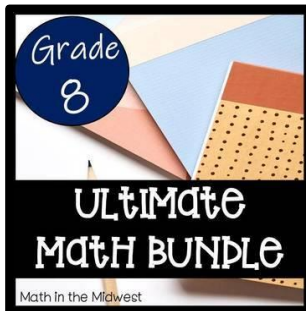
# Answer Key

Number	Answer
1	$33\text{cm}^2$
2	$216\text{in}^2$
3	$84.3\text{m}^2$
4	$250\text{in}^2$
5	$430\text{cm}^2$
6	$207\text{ft}^2$
7	$414\text{in}^2$
8	$533.8\text{ft}^2$
9	$125\text{in}^3$
10	13 inches

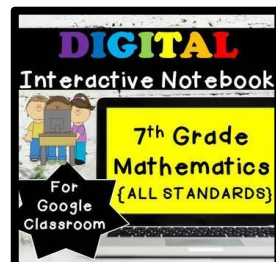
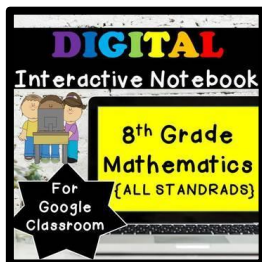
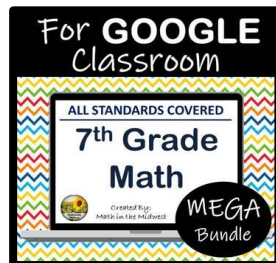
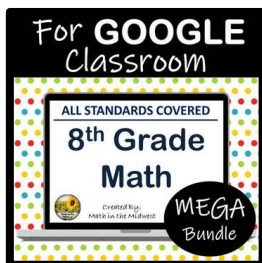
Number	Answer
11	13.5 feet of wrapping paper
12	\$5,445
13	$480\text{in}^3$
14	$576\text{in}^3$
15	$336\text{ft}^3$
16	$1,920\text{ft}^3$
17	$A = \frac{1}{2}bh$
18	$V = L \times W \times H$
19	$A = 2(wl + hl + hw)$
20	$A = 6a^2$

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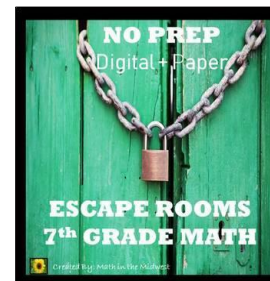
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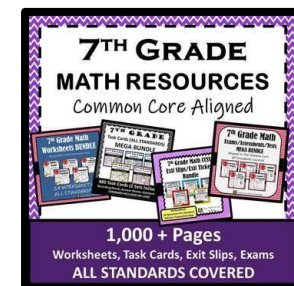
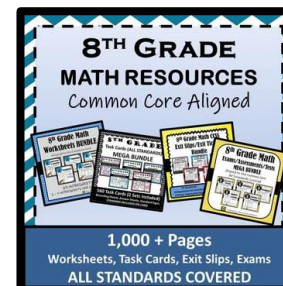
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