

# Geometry

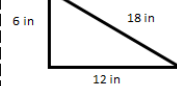
## Task Cards 7.G.1

20 Task Cards, Recording Sheet, Answer Sheet

7.G.1

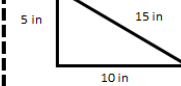
Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.

- 1 What are the new dimensions if we shrink the triangle below by a scale factor of  $\frac{1}{3}$



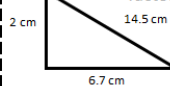
7.G.1

- 2 What are the new dimensions if we shrink the triangle below by a scale factor of  $\frac{1}{2}$



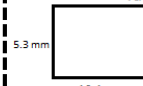
7.G.1

- 3 What are the new dimensions if we expand the triangle below by a factor of 4



7.G.1

- 4 What are the new dimensions if we expand the rectangle below by a factor of 3.5



7.G.1

- 9 An airplane is 180 feet long. Blake makes a scale model of the airplane at 1:60 of its actual size. How long is the model?

- 10 A square with an area of  $144 \text{ cm}^2$  is reduced by a factor of  $\frac{1}{3}$ . How long are the new sides of the square?

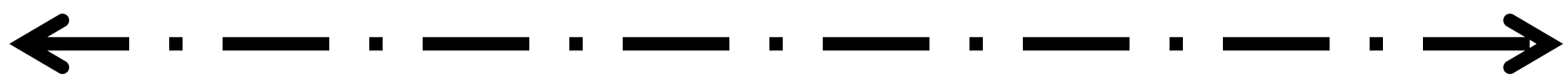
12

smaller  
or



Created by:  
Math in the Midwest

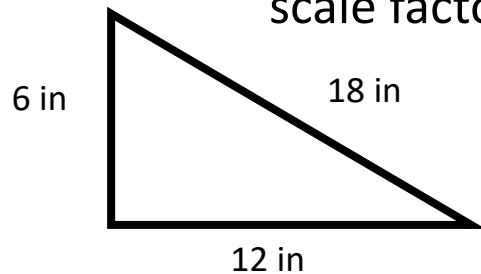
# 7.G.1



Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.

1

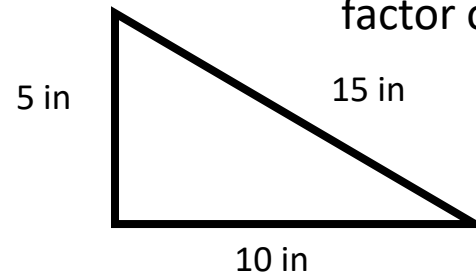
What are the new dimensions if we shrink the triangle below by a scale factor of  $\frac{1}{3}$



7.G.1

2

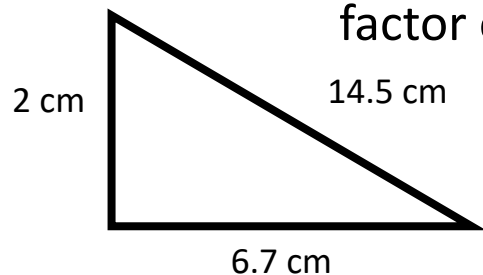
What are the new dimensions if we shrink the triangle below by a scale factor of  $\frac{1}{2}$



7.G.1

3

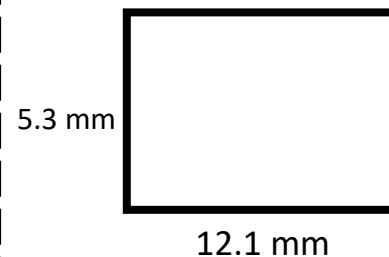
What are the new dimensions if we expand the triangle below by a factor of 4



7.G.1

4

What are the new dimensions if we expand the rectangle below by a factor of 3.5



7.G.1

5

A \_\_\_\_\_ is a ratio that compares two measures.

7.G.1

6

Two figures that are proportional in size are \_\_\_\_\_ figures.

7.G.1

7

To produce an enlarged or reduced measure you \_\_\_\_\_ the scale.

7.G.1

8

A downtown building is 880 feet tall. Ana makes a scale model of the building at 1:440 of its actual size. How tall is the model?

7.G.1

9

An airplane is 180 feet long. Blake makes a scale model of the airplane at 1:60 of its actual size. How long is the model?

7.G.1

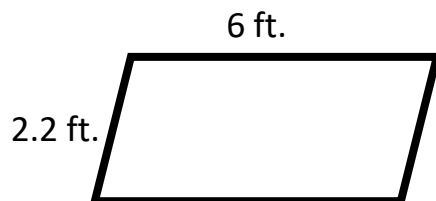
10

A square with an area of  $144 \text{ cm}^2$  is reduced by a factor of  $\frac{1}{3}$ . How long are the new sides of the square?

7.G.1

11

What are the new dimensions if we expand the parallelogram by a factor of 4.5



7.G.1

12

A larger image than the original is called an \_\_\_\_\_ and a smaller image than the original is called a \_\_\_\_\_

7.G.1

**13**

Determine whether the following drawings are bigger or smaller than the actual object.

The scale for a drawing is  
2mm:170mm

7.G.1

**14**

Determine whether the following drawings are bigger or smaller than the actual object.

The scale for a drawing is  
28ft:4ft

7.G.1

**15**

Explain the meaning of the following:

A scale on a map is  
1 mm:200 miles

7.G.1

**16**

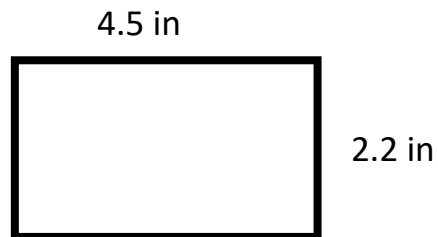
Explain the meaning of the following:

The scale for a model house is 1:45.

7.G.1

**17**

Determine the width, height, and area of the scaled rectangle.

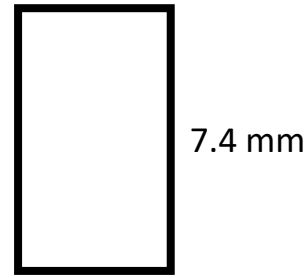


$1 \text{ in} = 4 \text{ ft.}$

7.G.1

**18**

Determine the width, height, and area of the scaled rectangle.

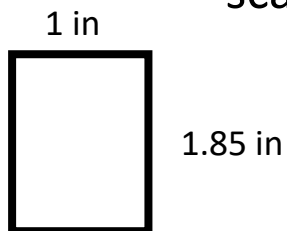


$1 \text{ mm} = 3.5 \text{ miles}$

7.G.1

**19**

Determine the width, height, and area of the scaled rectangle.

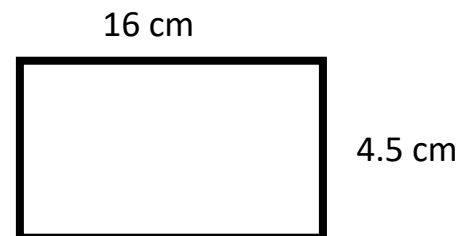


$1 \text{ in} = 12.5 \text{ ft.}$

7.G.1

**20**

Determine the width, height, and area of the scaled rectangle.



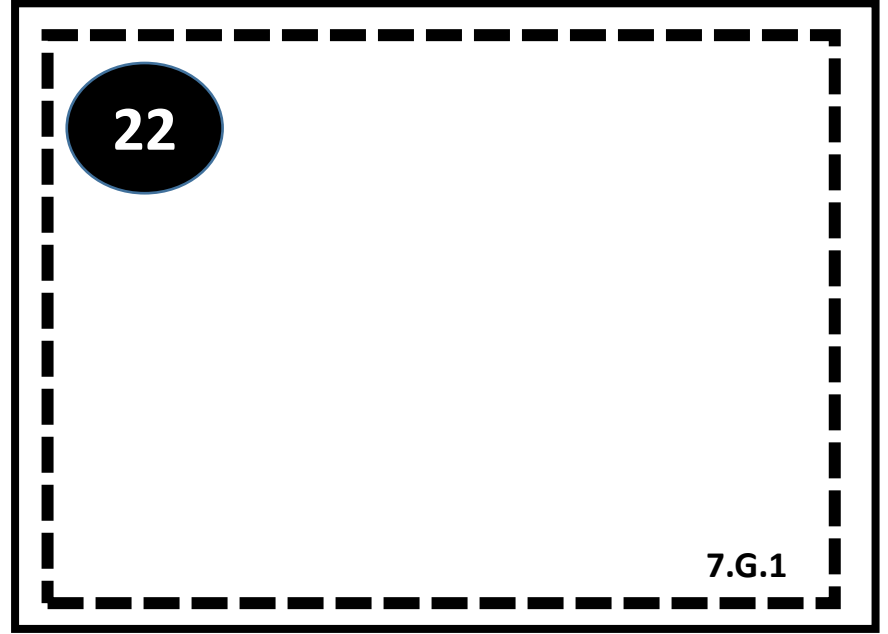
$1 \text{ cm} = 7 \text{ ft}$

7.G.1



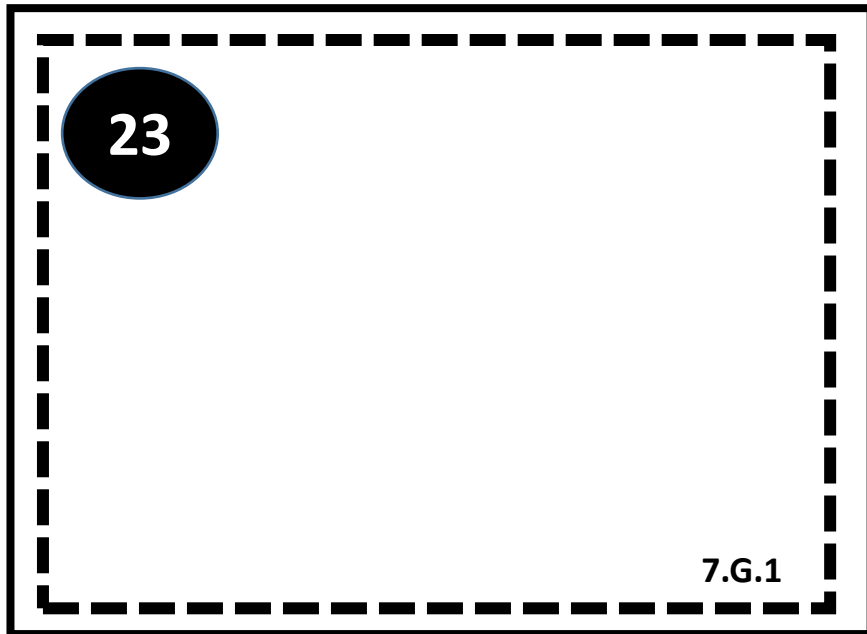
21

7.G.1



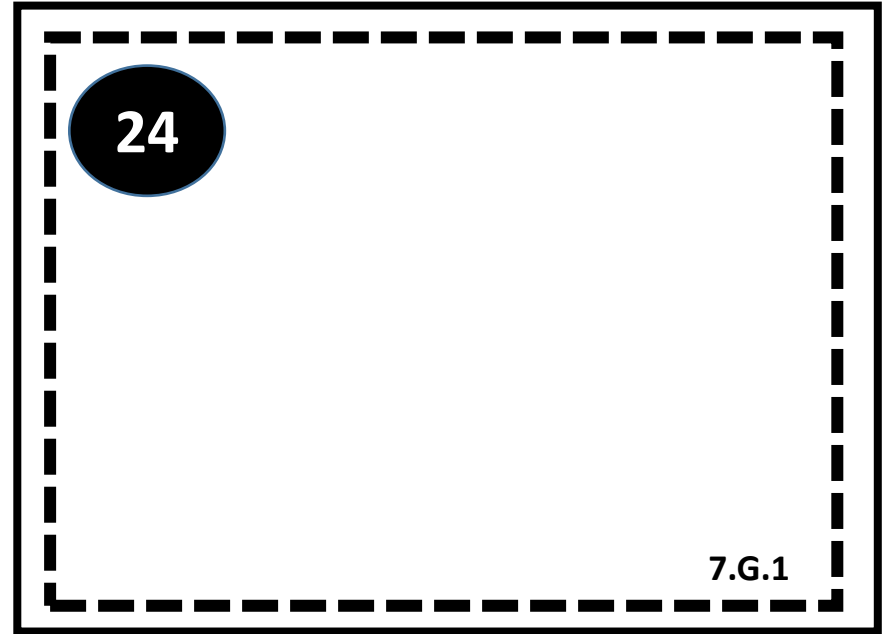
22

7.G.1



23

7.G.1



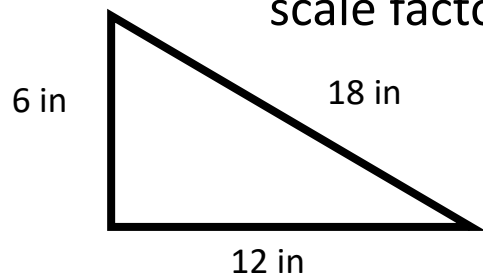
24

7.G.1



1

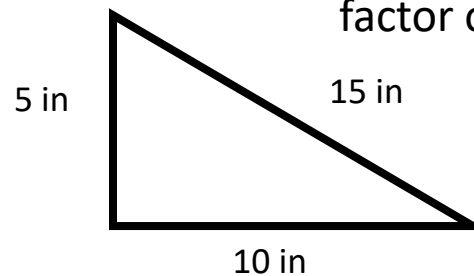
What are the new dimensions if we shrink the triangle below by a scale factor of  $\frac{1}{3}$



7.G.1

2

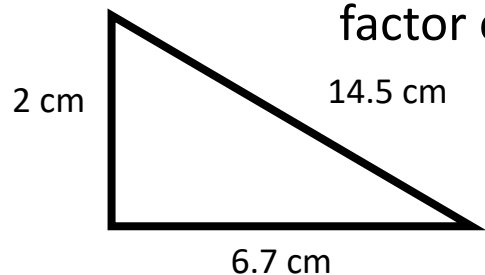
What are the new dimensions if we shrink the triangle below by a scale factor of  $\frac{1}{2}$



7.G.1

3

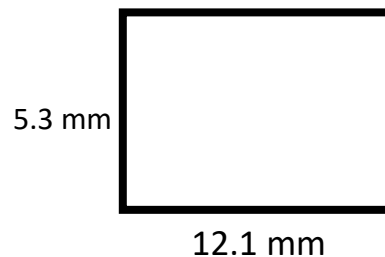
What are the new dimensions if we expand the triangle below by a factor of 4



7.G.1

4

What are the new dimensions if we expand the rectangle below by a factor of 3.5



7.G.1

5

A \_\_\_\_\_ is a ratio that compares two measures.

7.G.1

6

Two figures that are proportional in size are \_\_\_\_\_ figures.

7.G.1

7

To produce an enlarged or reduced measure you \_\_\_\_\_ the scale.

7.G.1

8

A downtown building is 880 feet tall. Ana makes a scale model of the building at 1:440 of its actual size. How tall is the model?

7.G.1

9

An airplane is 180 feet long. Blake makes a scale model of the airplane at 1:60 of its actual size. How long is the model?

7.G.1

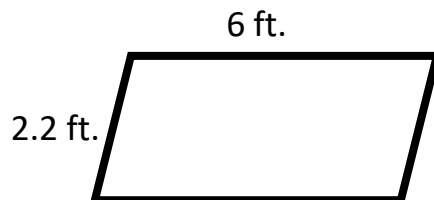
10

A square with an area of  $144 \text{ cm}^2$  is reduced by a factor of  $\frac{1}{3}$ . How long are the new sides of the square?

7.G.1

11

What are the new dimensions if we expand the parallelogram by a factor of 4.5



7.G.1

12

A larger image than the original is called an \_\_\_\_\_ and a smaller image than the original is called a \_\_\_\_\_

7.G.1



**13**

Determine whether the following drawings are bigger or smaller than the actual object.

The scale for a drawing is  
2mm:170mm

7.G.1

**14**

Determine whether the following drawings are bigger or smaller than the actual object.

The scale for a drawing is  
28ft:4ft

7.G.1

**15**

Explain the meaning of the following:

A scale on a map is  
1 mm:200 miles

7.G.1

**16**

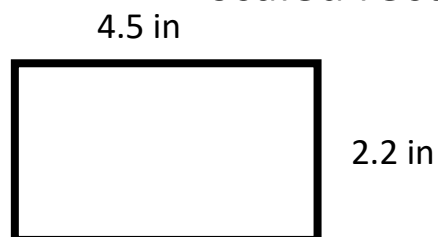
Explain the meaning of the following:

The scale for a model house is 1:45.

7.G.1

**17**

Determine the width, height, and area of the scaled rectangle.

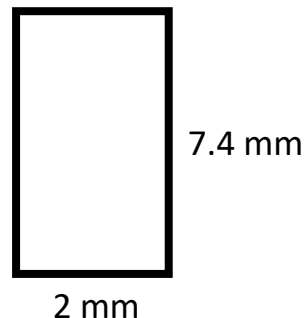


$1 \text{ in} = 4 \text{ ft.}$

7.G.1

**18**

Determine the width, height, and area of the scaled rectangle.

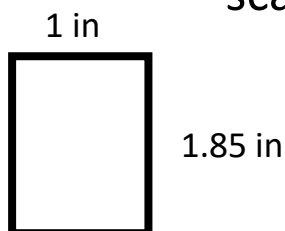


$1 \text{ mm} = 3.5 \text{ miles}$

7.G.1

**19**

Determine the width, height, and area of the scaled rectangle.

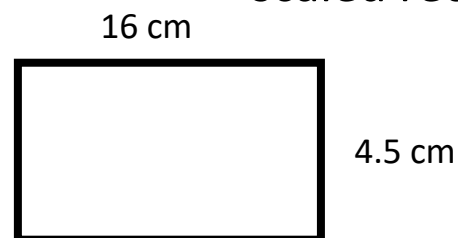


$1 \text{ in} = 12.5 \text{ ft.}$

7.G.1

**20**

Determine the width, height, and area of the scaled rectangle.



$1 \text{ cm} = 7 \text{ ft}$

7.G.1

21

7.G.1

22

7.G.1

23

7.G.1

24

7.G.1

Name \_\_\_\_\_

Hour \_\_\_\_\_

# 7.G.1 Recording Sheet

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

Name \_\_\_\_\_

Hour \_\_\_\_\_

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.



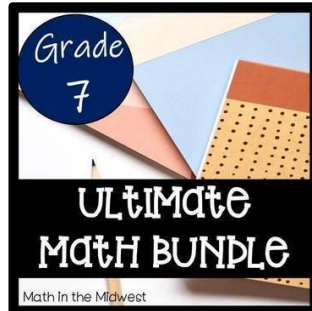
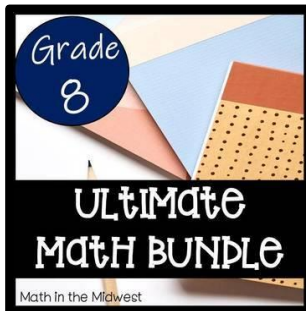
# Answer Key

Number	Answer
1	2 in, 4 in, 6 in
2	2.5 in, 5 in, 7.5 in
3	8 cm, 26.8 cm, 58 cm
4	18.55 mm, 42.35 mm
5	Scale
6	similar
7	Multiply
8	2 feet
9	3 feet
10	4 cm

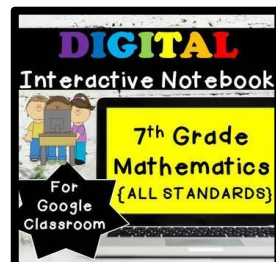
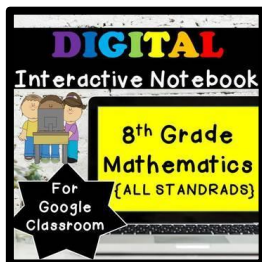
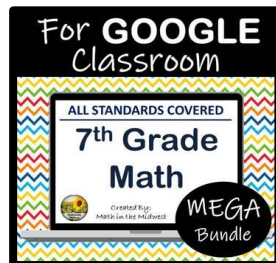
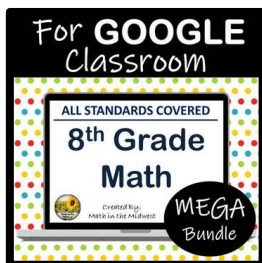
Number	Answer
11	9.9 ft, 27 ft
12	Enlargement, reduction
13	Smaller
14	Bigger
15	For every 1 mm on the map there are 200 miles of actual distance
16	The model house is $\frac{1}{45}$ the size of the actual house
17	18 in, 8.8 in Area = $158.4in^2$
18	25.9 miles, 7 miles Area = $181.3mi^2$
19	12.5 ft, 23.125 ft Area = $289.1ft^2$
20	112 cm, 31.5 cm Area = $3,528cm^2$

# Check out my other products!

## Ultimate Bundles:

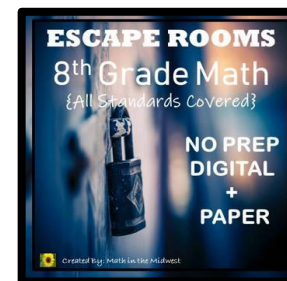
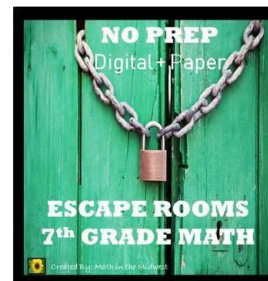


## Digital Bundles:

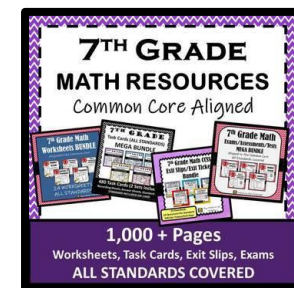
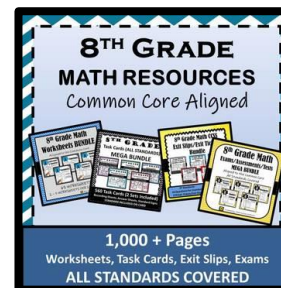


Visit my store & follow me!

## Escape Rooms:



## PDF Bundles:



© Math in the Midwest 2020

<https://www.teacherspayteachers.com/Store/Math-In-The-Midwest>

# Terms of Use

Terms of Use Permission is granted to copy pages specifically for student or teacher use only by the original purchaser or licensee. The reproduction of this product for any other use is strictly prohibited. Copying any part of the product and placing it on the Internet is strictly prohibited. Doing so violates the Digital Millennium Copyright Act (DMCA).

© Math in the Midwest 2020

Be the first to know about my new discounts, freebies, and product launches. Click the link below to become a follower!

<https://www.teacherspayteachers.com/Sellers-Im-Following/Add/Math-In-The-Midwest>

Get TpT Credit on Future Purchases by:

- Leaving feedback on the products you purchase. TpT gives you feedback credits that you use to lower the cost of your future purchases. I truly love hearing what you think about my products so please consider leaving feedback! Thank you ☺

Credit & many thanks to:

