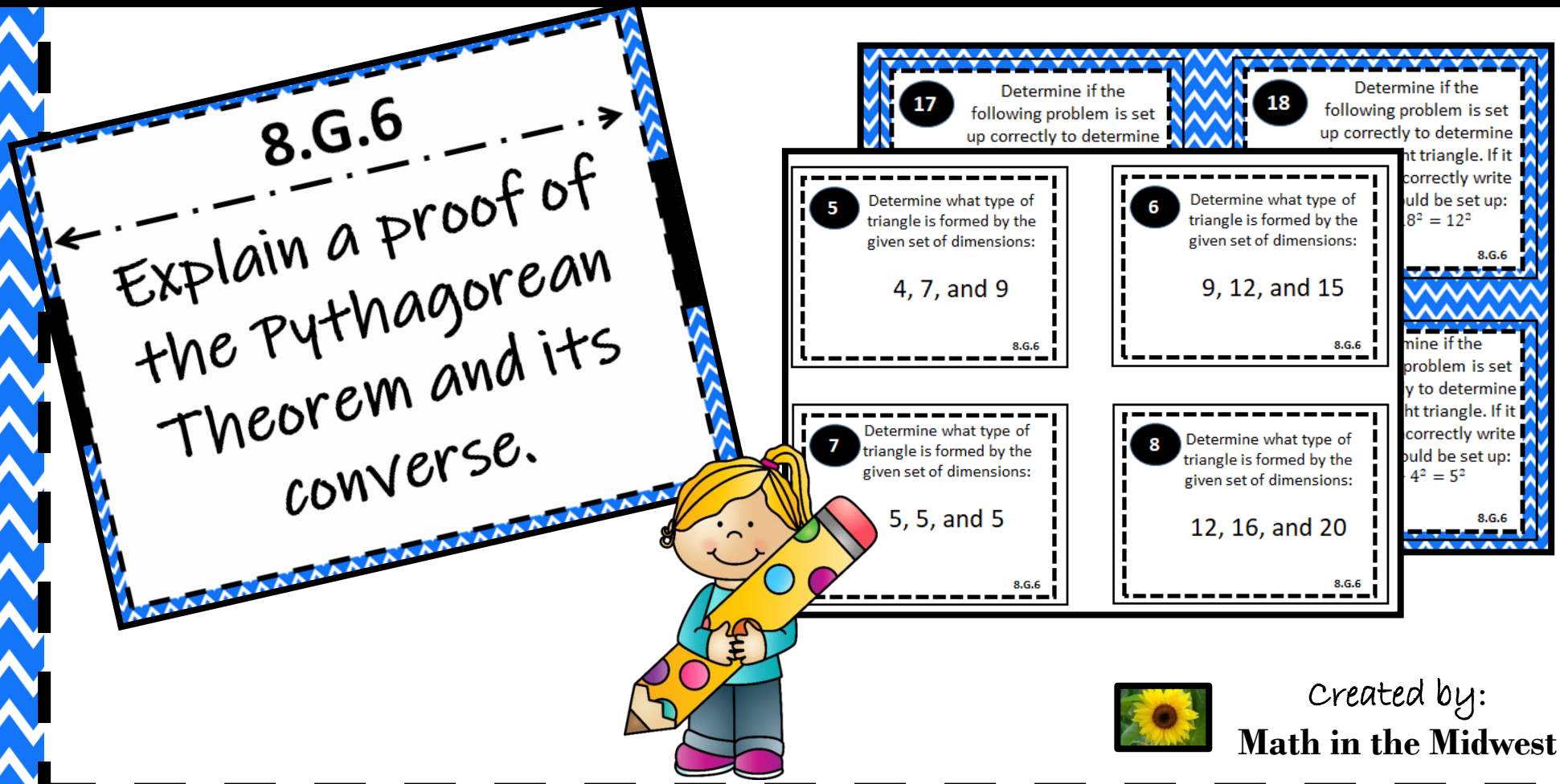
Geometry
Task Cards 8.G.6

20 Task Cards, Recording Sheet, Answer Sheet



Created by:
Math in the Midwest

8.G.6

Explain a proof of the Pythagorean Theorem and its converse.

1

The Converse of the Pythagorean Theorem is used to determine if triangles are _____ triangles.

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2

What is the formula for the Pythagorean Theorem?

8.G.6

3

In the Pythagorean Theorem what are a and b referred to as?

8.G.6

4

In the Pythagorean Theorem what is c known as?

8.G.6

5

Determine what type of triangle is formed by the given set of dimensions:

4, 7, and 9

8.G.6

6

Determine what type of triangle is formed by the given set of dimensions:

9, 12, and 15

8.G.6

7

Determine what type of triangle is formed by the given set of dimensions:

5, 5, and 5

8.G.6

8

Determine what type of triangle is formed by the given set of dimensions:

12, 16, and 20

8.G.6

9

Determine what type of triangle is formed by the given set of dimensions:

1, 3, and 5

8.G.6

10

Determine what type of triangle is formed by the given set of dimensions:

6, 8, and 10

8.G.6

11

Determine whether the triangle with the given side lengths is a right triangle:

7, 12, 18

8.G.6

12

Determine whether the triangle with the given side lengths is a right triangle:

15, 20, and 25

8.G.6

13

A triangle has sides with lengths of 12 miles, 18 miles, and 31 miles. Is it a right triangle?

8.G.6

14

A triangle has sides with lengths of 21 feet, 28 feet, and 35 feet. Is it a right triangle?

8.G.6

15

A triangular shaped park has side walks that are 30 feet, 40 feet, and 50 feet long. Does the sidewalk make a right triangle?

8.G.6

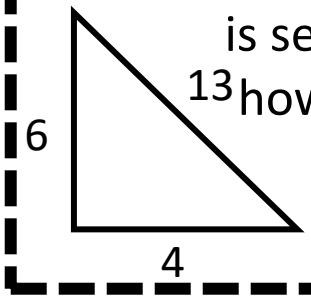
16

A triangular garden has lengths of 6 feet, 12 feet, and 18 feet. Is the garden a right triangle?

8.G.6

17

Determine if the following problem is set up correctly to determine if it is a right triangle. If it is set up incorrectly write how it should be set up:

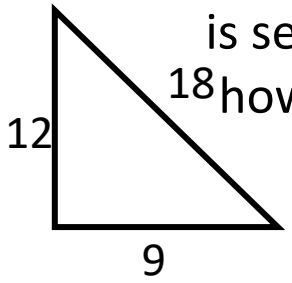


$6^2 + 4^2 = 13^2$

8.G.6

18

Determine if the following problem is set up correctly to determine if it is a right triangle. If it is set up incorrectly write how it should be set up:

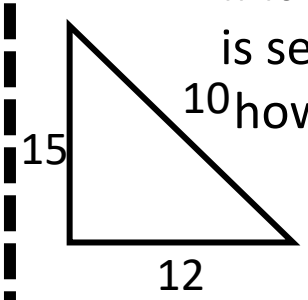


$9^2 + 18^2 = 12^2$

8.G.6

19

Determine if the following problem is set up correctly to determine if it is a right triangle. If it is set up incorrectly write how it should be set up:

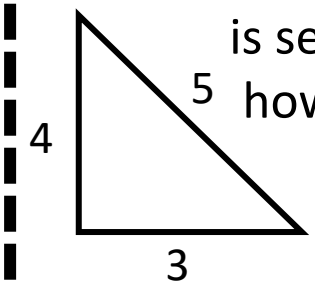


$12^2 + 15^2 = 10^2$

8.G.6

20

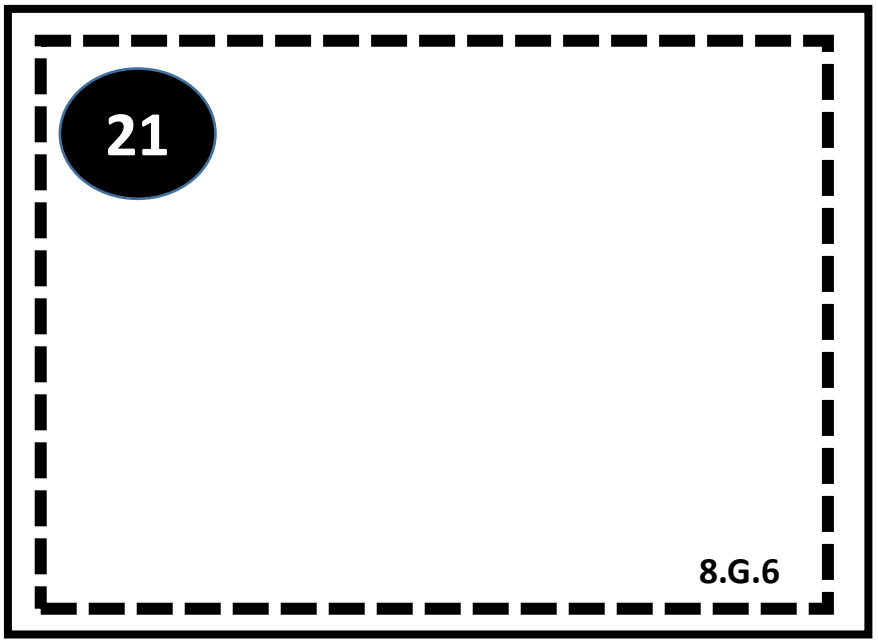
Determine if the following problem is set up correctly to determine if it is a right triangle. If it is set up incorrectly write how it should be set up:



$3^2 + 4^2 = 5^2$

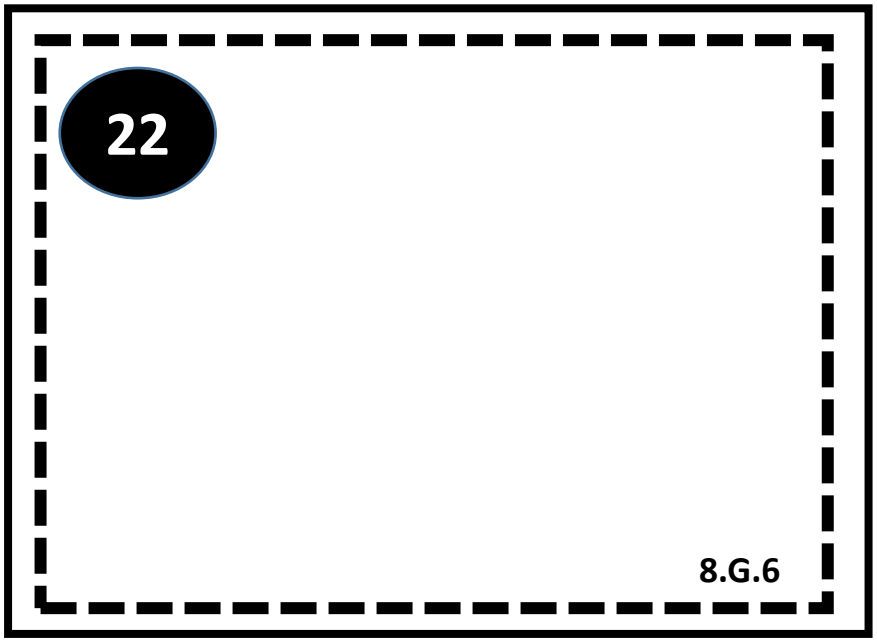
8.G.6

21



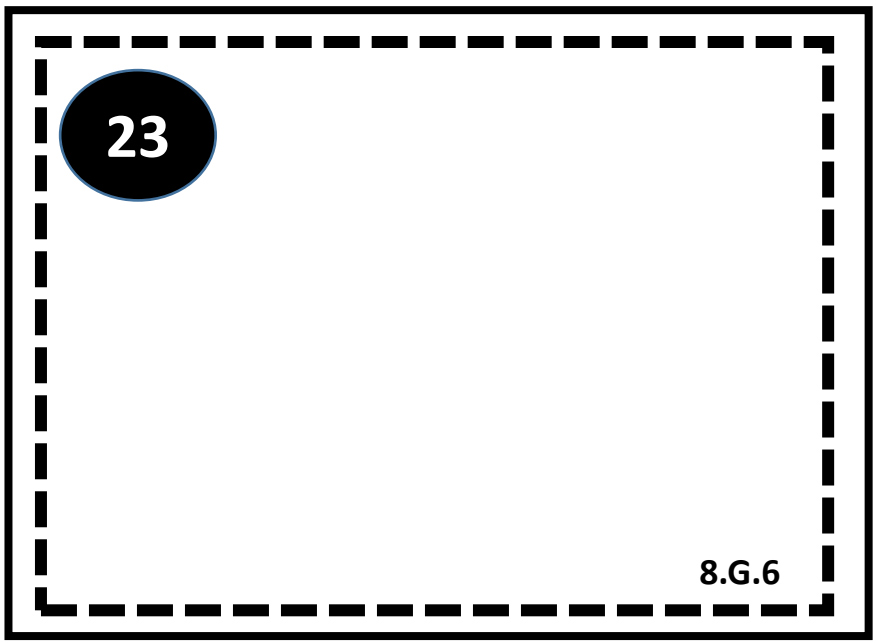
8.G.6

22



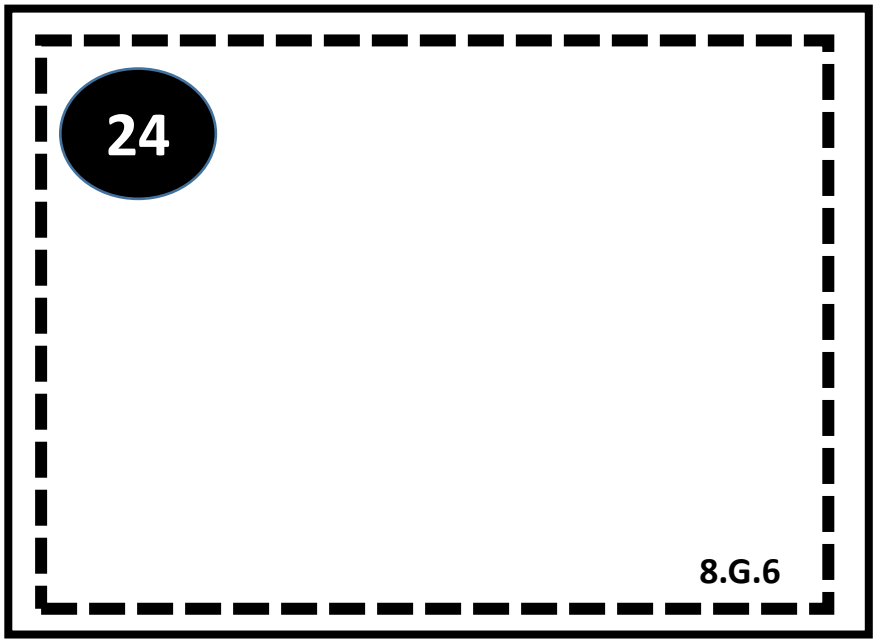
8.G.6

23



8.G.6

24



8.G.6

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8.G.6

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8.G.6

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8.G.6

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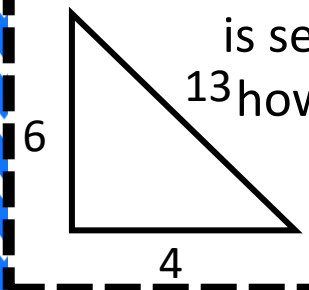
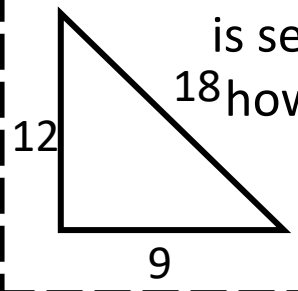


$6^2 + 4^2 = 13^2$

8.G.6

18

Determine if the following problem is set up correctly to determine if it is a right triangle. If it is set up incorrectly write how it should be set up:

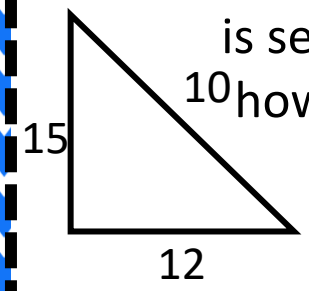


$9^2 + 18^2 = 12^2$

8.G.6

19

Determine if the following problem is set up correctly to determine if it is a right triangle. If it is set up incorrectly write how it should be set up:



$12^2 + 15^2 = 10^2$

8.G.6

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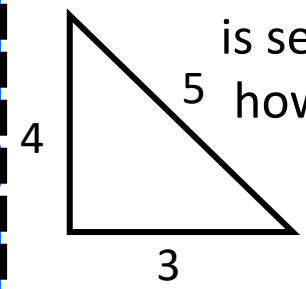
Determine if the following problem is set up correctly to determine if it is a right triangle. If it is set up incorrectly write how it should be set up:



$3^2 + 4^2 = 5^2$

8.G.6

21

8.G.6

22

8.G.6

23

8.G.6

24

8.G.6

Name _____ Hour _____

8.G.6 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	$Right$
2	$a^2 + b^2 = c^2$
3	$Legs$
4	$Hypotenuse$
5	$Obtuse$
6	$Right$
7	$Acute$
8	$Right$
9	$Acute$
10	$Right$

Number	Answer
11	$Not\ a\ right\ triangle$
12	$Right\ Triangle$
13	$Not\ a\ right\ triangle$
14	$Right\ Triangle$
15	$Right\ Triangle$
16	$Not\ a\ right\ triangle$
17	$Correct$
18	$Incorrect\ should\ say$: $9^2 + 12^2 = 18^2$
19	$Incorrect, triangle\ is\ not\ labeled\ correctly.$ $10^2 + 12^2 = 15^2$
20	$Correct$

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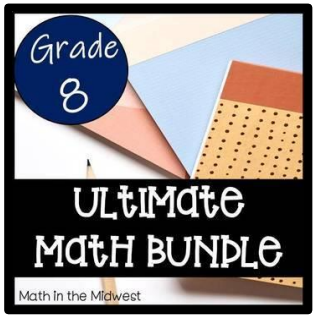

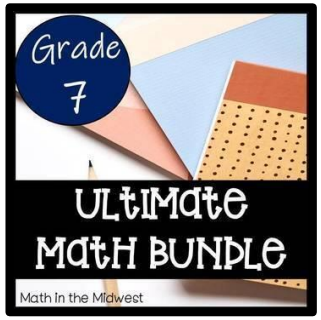

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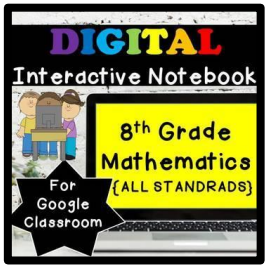
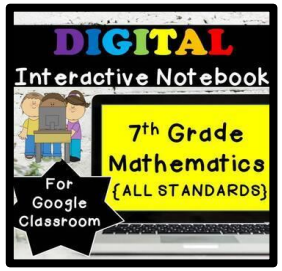
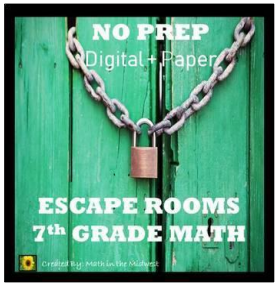
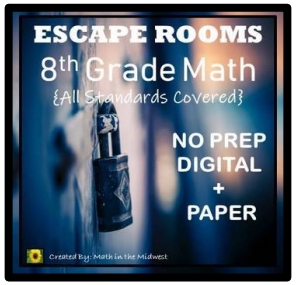
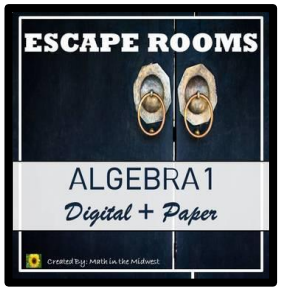




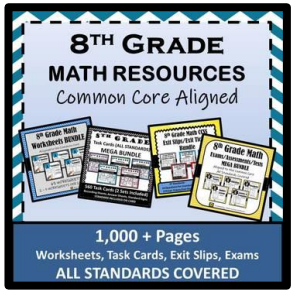
Escape Rooms:

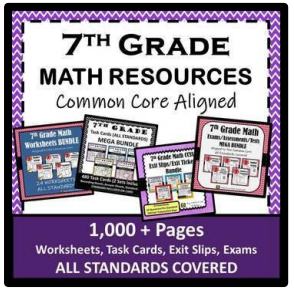






PDF Bundles:





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