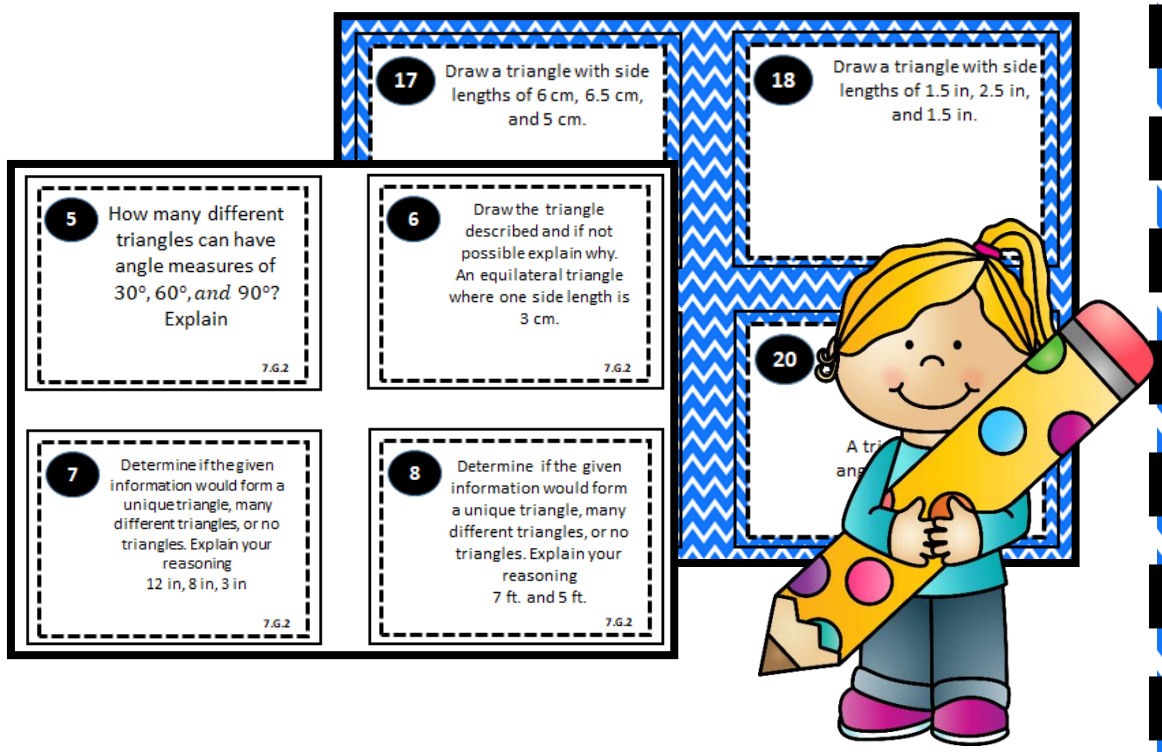
Geometry
Task Cards 7.G.2

20 Task Cards, Recording Sheet, Answer Sheet

7.G.2

Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.



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Math in the Midwest

7.G.2

Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.

1

Same size, shape, and measure is also known as

_____

7.G.2

2

Draw the triangle described and if not possible explain why.

Triangle with three acute angles.

7.G.2

3

Draw the triangle described and if not possible explain why.

Triangle with two obtuse angles.

7.G.2

4

Draw triangle GHI with angle measures of $50°, 60°, and\ 70°$

7.G.2

5

How many different triangles can have angle measures of $30°, 60°, and\ 90°$? Explain

7.G.2

6

Draw the triangle described and if not possible explain why.
An equilateral triangle where one side length is 3 cm.

7.G.2

7

Determine if the given information would form a unique triangle, many different triangles, or no triangles. Explain your reasoning
12 in, 8 in, 3 in

7.G.2

8

Determine if the given information would form a unique triangle, many different triangles, or no triangles. Explain your reasoning
7 ft. and 5 ft.

7.G.2

9

Determine if the given information would form a unique triangle, many different triangles, or no triangles. Explain your reasoning

10 in, 5 in, 12 in

7.G.2

10

Determine if the following statement is always true, sometimes true, or never true.

A triangle can be formed given any two side lengths.

7.G.2

11

Determine if the following statement is always true, sometimes true, or never true.

A triangle can be formed given any three side lengths.

7.G.2

12

Determine if the following statement is always true, sometimes true, or never true.

A triangle can be formed if the angles have the exact same measure.

7.G.2

13

Determine if the following statement is always true, sometimes true, or never true.

A triangle can be formed given any three angle measurements.

7.G.2

14

Draw the triangle described and if not possible explain why.

One obtuse angle and two acute angles.

7.G.2

15

Draw the triangle described and if not possible explain why,

One obtuse angle, one right angle, and one acute angle.

7.G.2

16

Draw the triangle described and if not possible explain why,

Two right angles and one acute angle.

7.G.2

17

Draw a triangle with side lengths of 6 cm, 6.5 cm, and 5 cm.

7.G.2

18

Draw a triangle with side lengths of 1.5 in, 2.5 in, and 1.5 in.

7.G.2

19

Determine if the statement is possible or impossible.

A triangle with the angles: 51°, 12° and 115°.

7.G.2

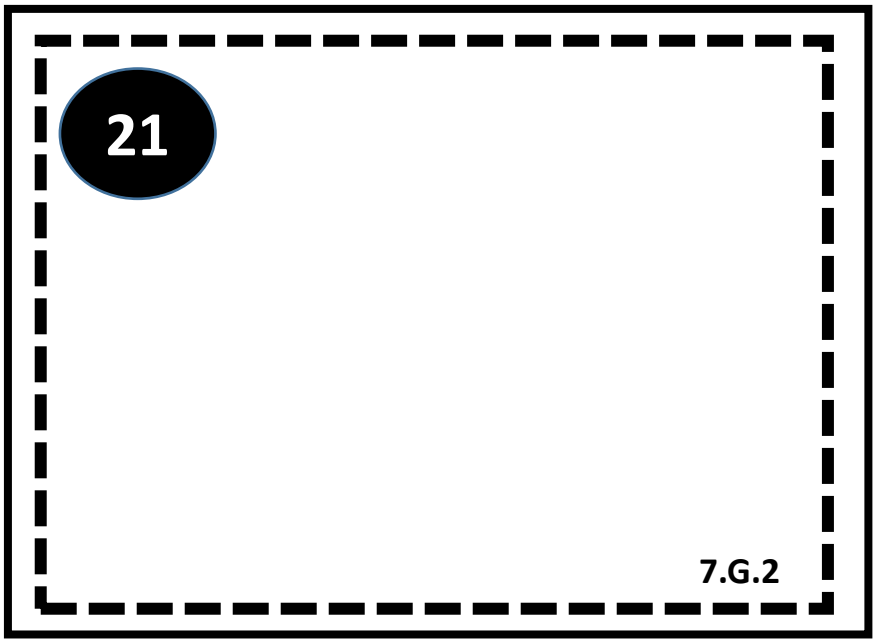
20

Determine if the statement is possible or impossible.

A triangle with the angles: 125°, 40° and 25°.

7.G.2

21



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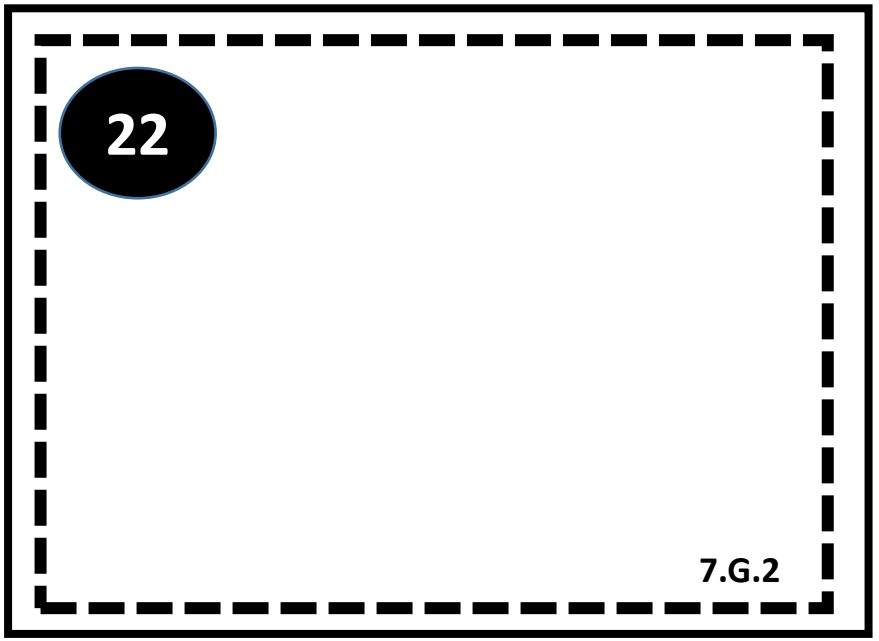
22



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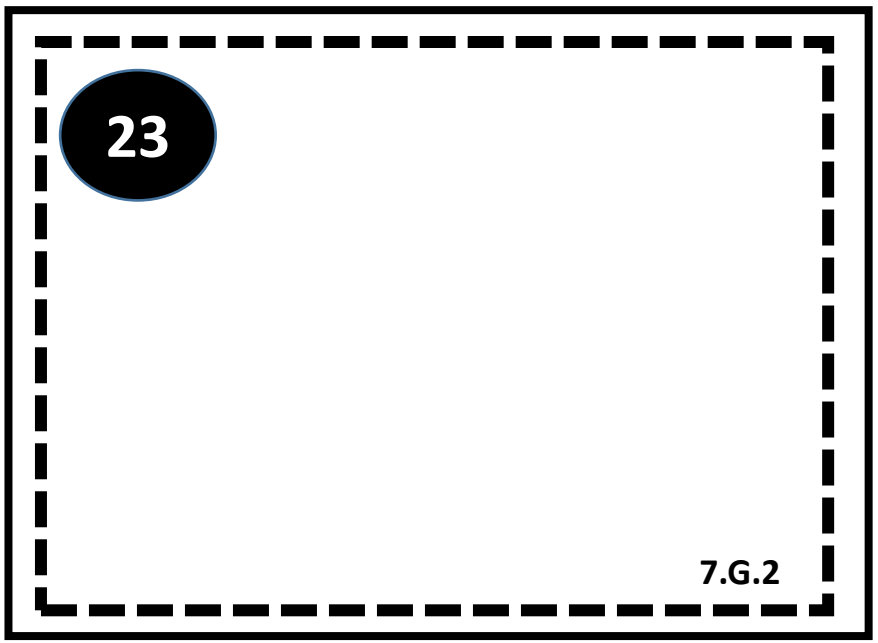
23



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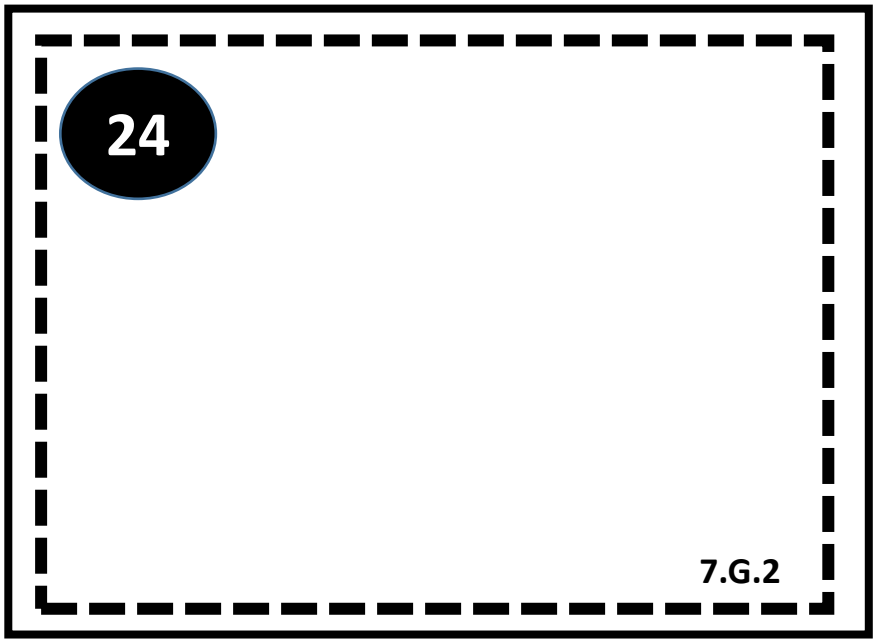
24



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7.G.2

22

7.G.2

23

7.G.2

24

7.G.2

Name _____ Hour _____

7.G.2 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	Congruent
2	Check drawing: equilateral triangle with 60 degree angles.
3	Not possible
4	Check drawing
5	One: It would be a right Triangle
6	Check drawing: all lengths should be 3 cm
7	No Triangle because $8 + 3 < 12$
8	Many Triangles because only 2 lengths are given
9	Unique because $10 + 5 > 12$
10	Always True

Number	Answer
11	Sometimes True
12	Sometimes True
13	Sometimes True
14	Check Drawing
15	Not possible because angles would be more than $180°$
16	Not possible because angles would be more than $180°$
17	Check drawing: acute scalene triangle
18	Check drawing: Isosceles triangle
19	Not Possible
20	Check Drawing

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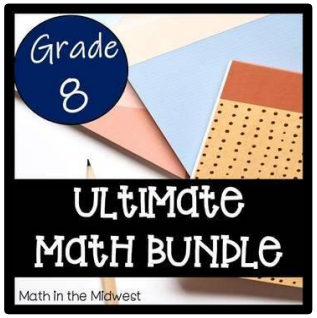

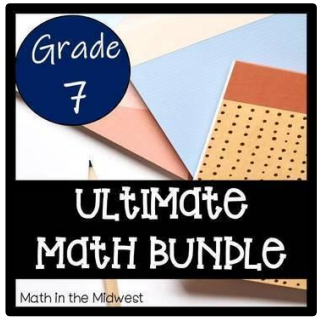

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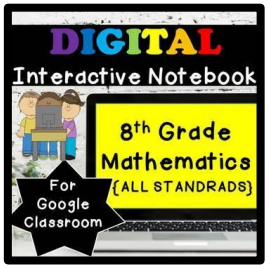

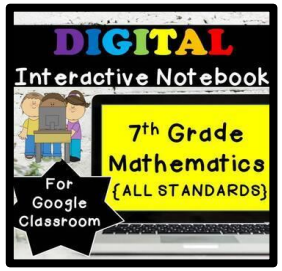

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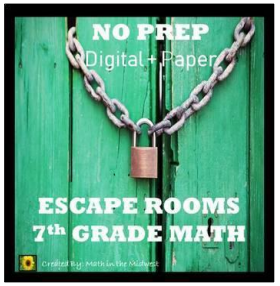

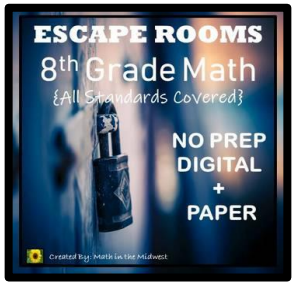

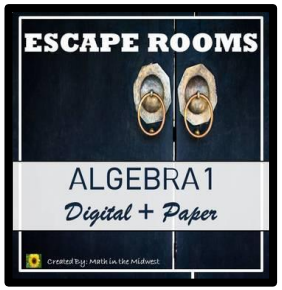

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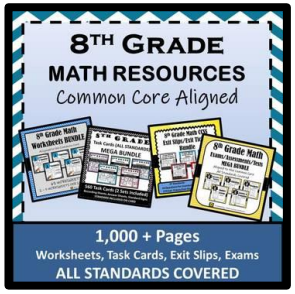

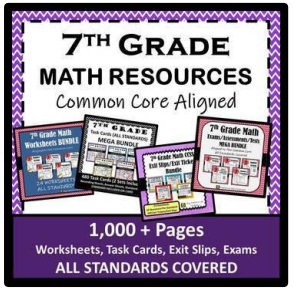

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