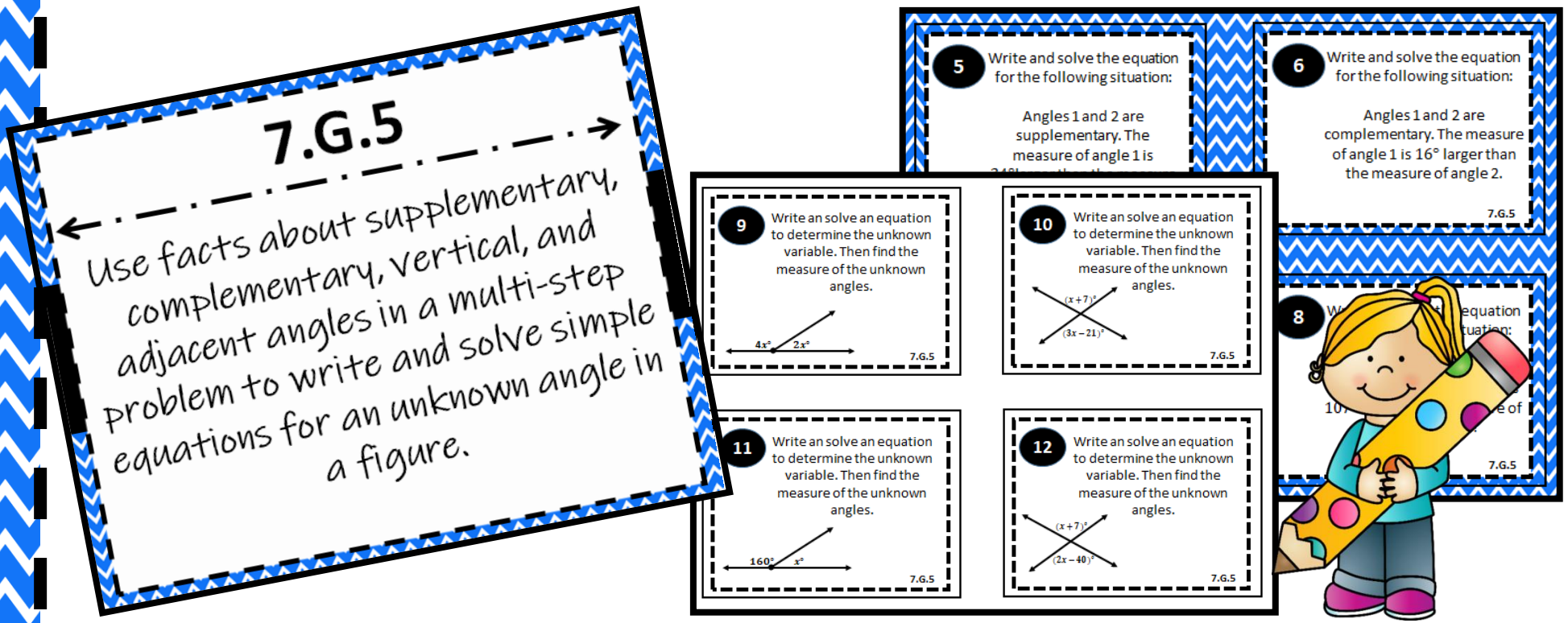
Geometry
Task Cards 7.G.5

20 Task Cards, Recording Sheet, Answer Sheet



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Math in the Midwest

7.G.5

Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.

1

Angles that sum to 180° are called _____.

7.G.5

2

Angles that sum to 90° are called _____.

7.G.5

3

_____ angles are opposite angles made by two intersecting lines.

7.G.5

4

_____ angles have a common vertex and side

7.G.5

5

Write and solve the equation for the following situation:

Angles 1 and 2 are supplementary. The measure of angle 1 is $34°$larger than the measure of angle 2.

7.G.5

6

Write and solve the equation for the following situation:

Angles 1 and 2 are complementary. The measure of angle 1 is $16°$ larger than the measure of angle 2.

7.G.5

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Write and solve the equation for the following situation:

The complement of an angle is $31°$ more than the measure of the angle itself.

7.G.5

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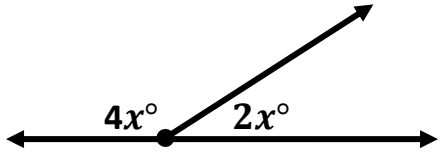
Write and solve the equation for the following situation:

Two angles are supplementary. One angle is $107°$. What is the measure of the other angle?

7.G.5

9

Write an solve an equation to determine the unknown variable. Then find the measure of the unknown angles.



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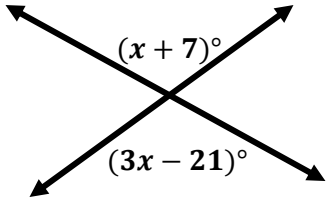
10

Write an solve an equation to determine the unknown variable. Then find the measure of the unknown angles.



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11

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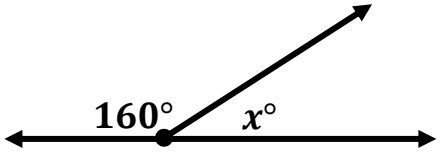

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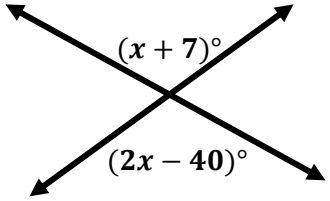

7.G.5

13

What angle is supplementary to 67°?

7.G.5

14

What angle is complementary to 67°?

7.G.5

15

Write an equation for two angles a and b that are complementary.

7.G.5

16

Write an equation for two angles a and b that are supplementary.

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Write an equation for two angles a and b that are vertical angles.

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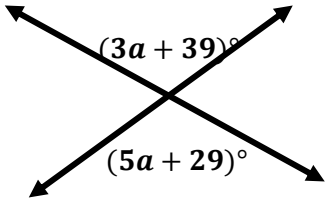

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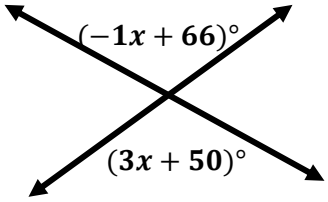

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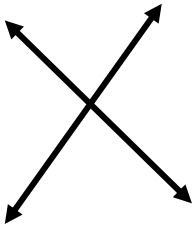
20

True or False
If you know at least one angle on the diagram below you can find the other three.



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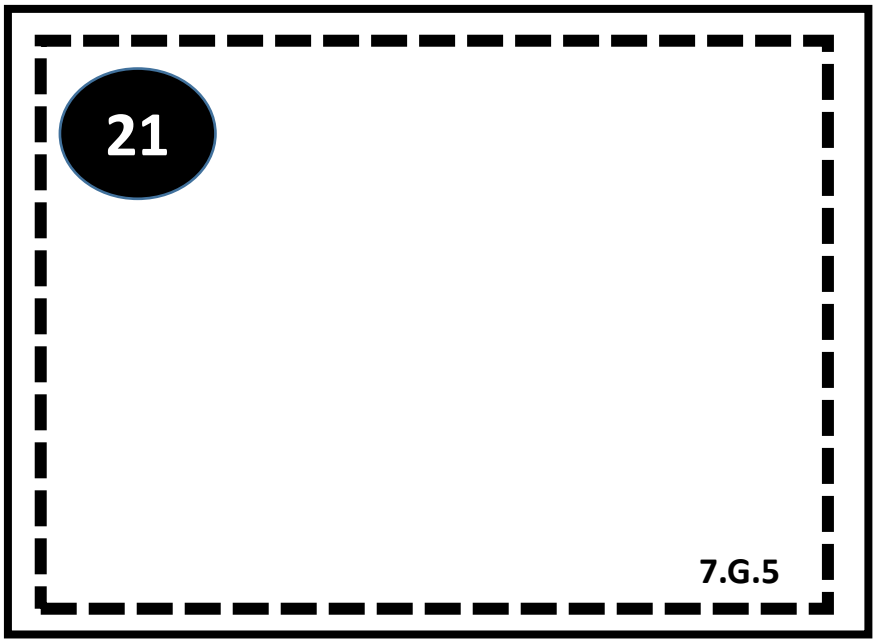

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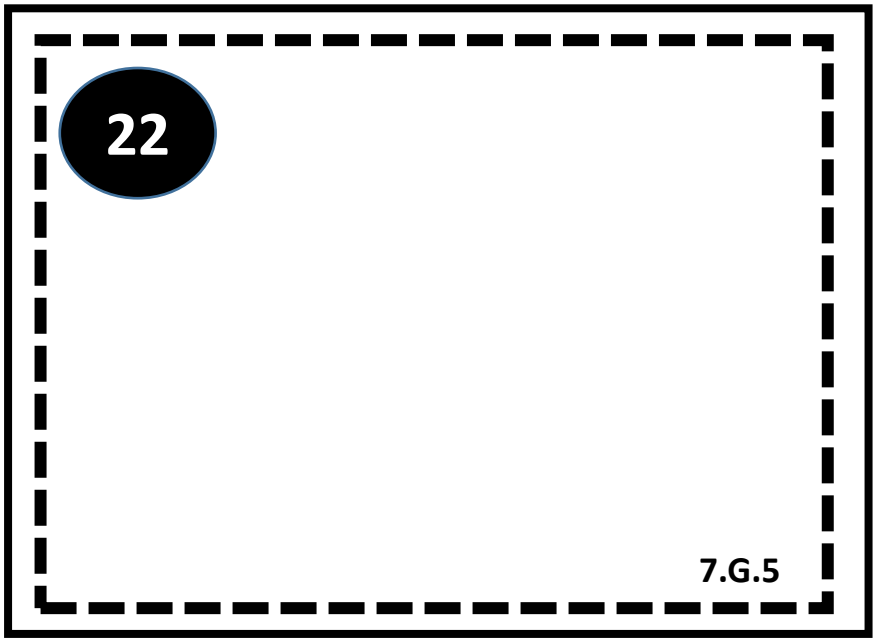

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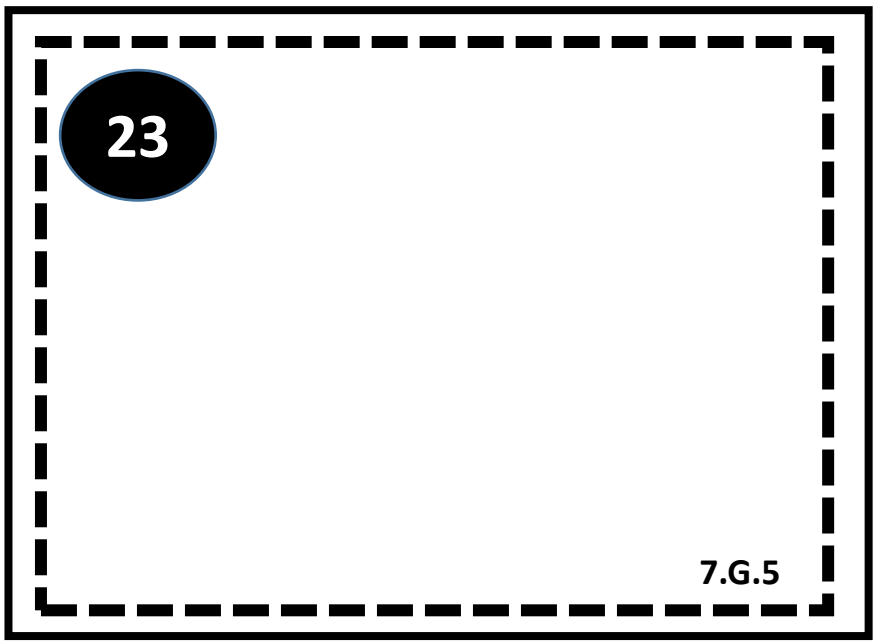

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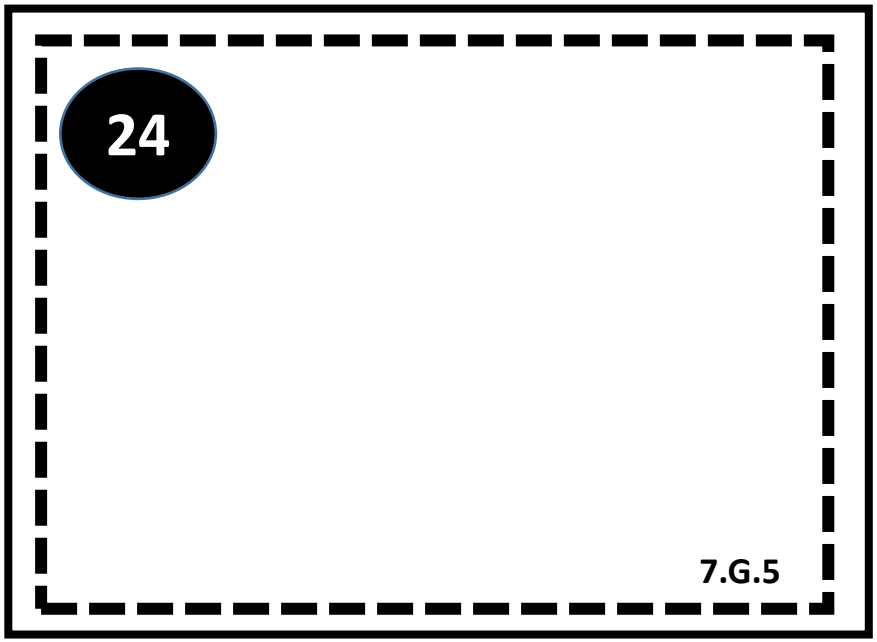

7.G.5

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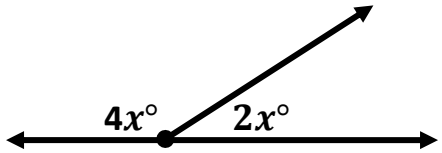

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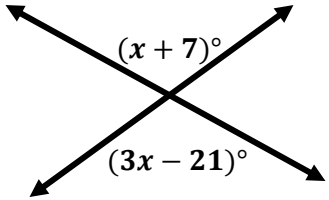

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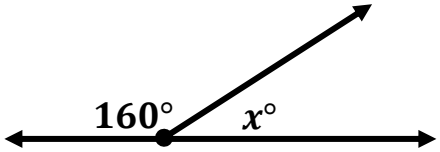

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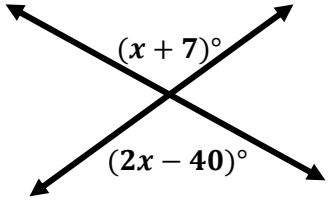

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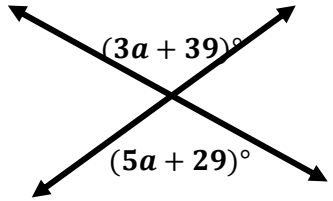

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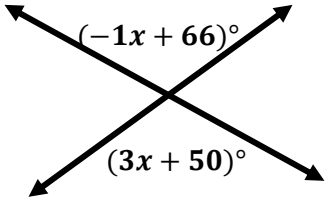

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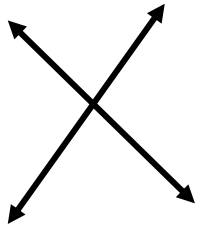

7.G.5

21

7.G.5

22

7.G.5

23

7.G.5

24

7.G.5

Name _____ Hour _____

7.G.5 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	Supplementary
2	Complementary
3	Vertical
4	Adjacent
5	$x + (x + 34) = 180$ $x = 73$
6	$x + (x + 16) = 90$ $x = 37$
7	$x + (x + 31) = 90$ $x = 29.5$
8	$x + 107 = 180$ $x = 73$
9	$4x + 2x = 180$ $x = 30$ $120° and\ 60°$
10	$x + 7 = 3x - 21$ $x = 14$ $21° and\ 159°$

Number	Answer
11	$x + 160 = 180$ $x = 20$
12	$x + 7 = 2x\ - 40$ $x = 47$ $54° and\ 126°$
13	$113°$
14	$23°$
15	$a + b = 90$
16	$a + b = 180$
17	$a = b$
18	$3a + 39 = 5a + 29$ $a = 5$ $54° and\ 126°$
19	$-1x + 66 = 3x + 50$ $x = 4$ $62° and\ 118°$
20	True

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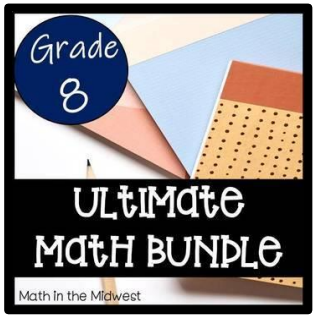

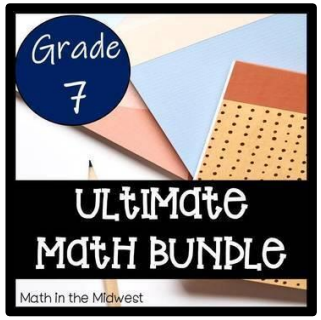

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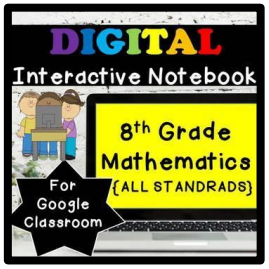
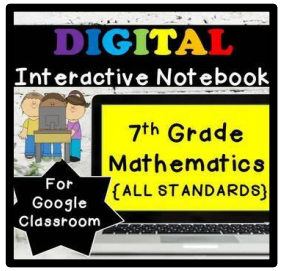
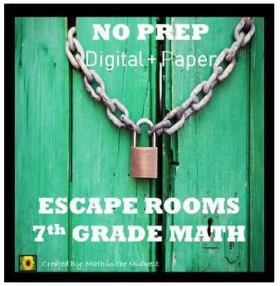
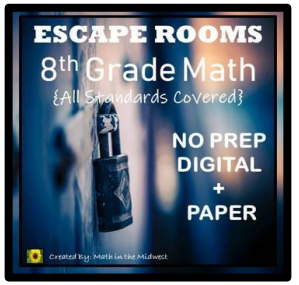
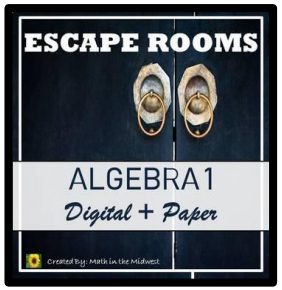




Escape Rooms:







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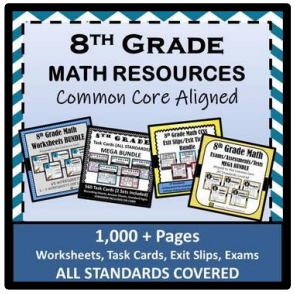

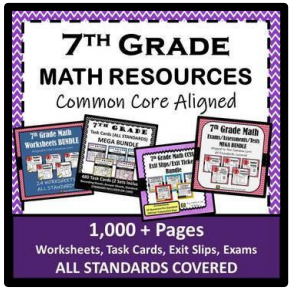

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