

# Geometry

## Task Cards 8.G.5

20 Task Cards, Recording Sheet, Answer Sheet

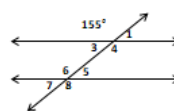
**8.G.5**

Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.



**5**

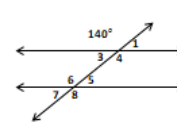
Determine the measure of angle 5.



8.G.5

**6**

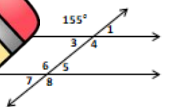
Determine the measure of angle 8.



8.G.5

**7**

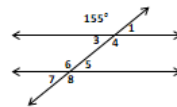
Determine which of the following angles are supplementary to Angle 1.



8.G.5

**8**

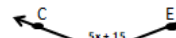
Which of the following angles are equivalent to 35°?



8.G.5

**9**

Find the measure of angle CDE.



**10**

Find the measure of angle CDF.



8.G.5

Find the measure of angle FDG.

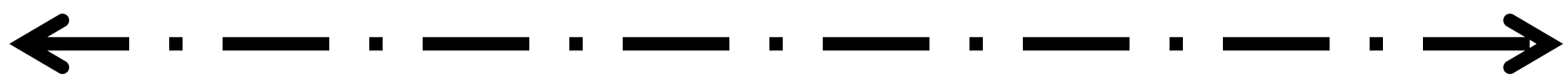


8.G.5



Created by:  
**Math in the Midwest**

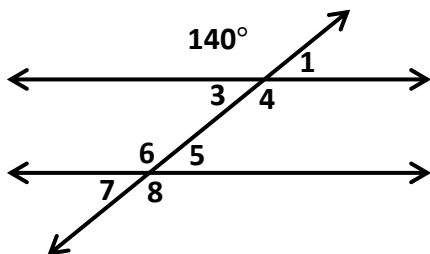
# 8.G.5



Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.

1

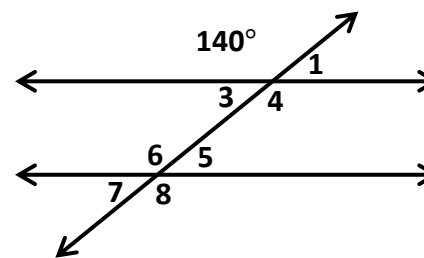
True or False  
The value of angle 5 is  $140^\circ$ .



8.G.5

2

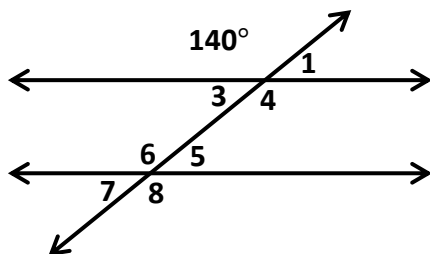
True or False  
Angle 3 and Angle 4 are alternate interior angles.



8.G.5

3

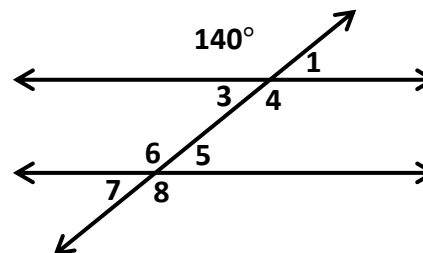
True or False  
Angle 5 and Angle 7 are vertical angles.



8.G.5

4

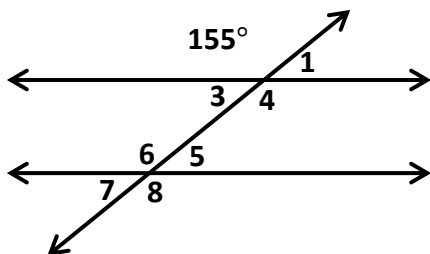
True or False  
Angle 1 and Angle 5 are corresponding angles.



8.G.5

5

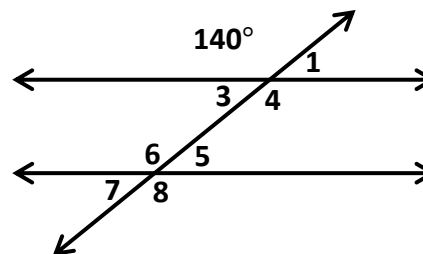
Determine the measure of angle 5.



8.G.5

6

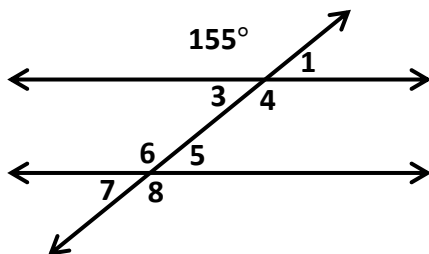
Determine the measure of angle 8.



8.G.5

7

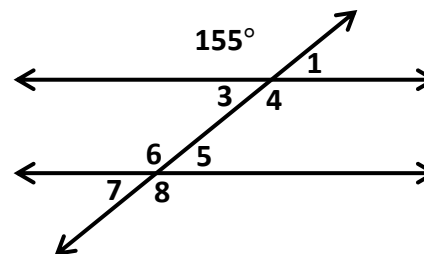
Determine which of the following angles are supplementary to Angle 1.



8.G.5

8

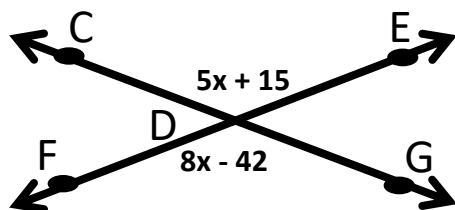
Which of the following angles are equivalent to  $25^\circ$ ?



8.G.5

9

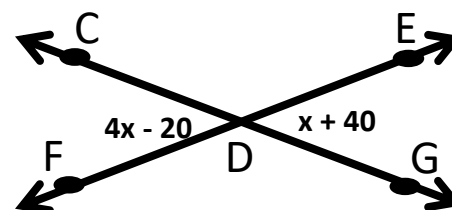
Find the measure  
of angle CDE.



8.G.5

10

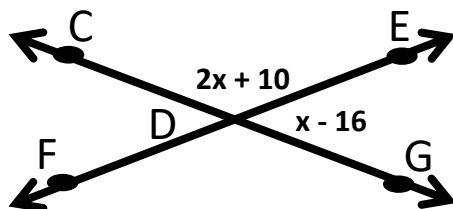
Find the measure  
of angle CDF.



8.G.5

11

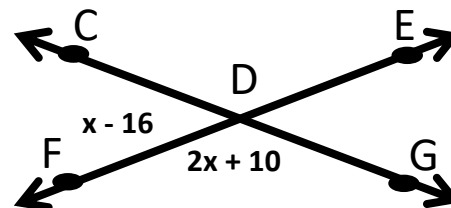
Find the measure  
of angle EDG



8.G.5

12

Find the measure  
of angle FDG



8.G.5

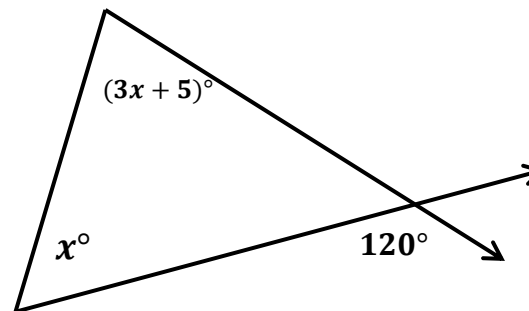
**13**

The \_\_\_\_\_ states that the measure of an exterior angle of a triangle is equal to the sum of the measures of the remote interior angles of the triangle.

8.G.5

**14**

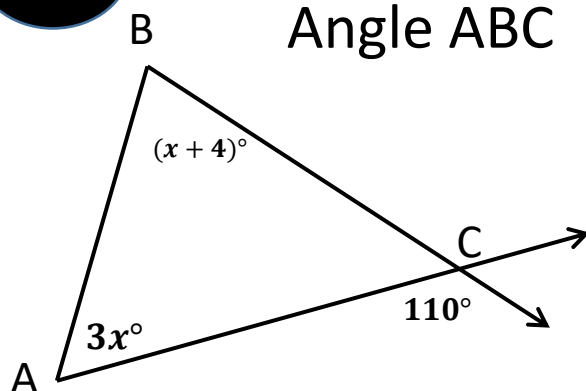
Solve the following problem for  $x$ .



8.G.5

**15**

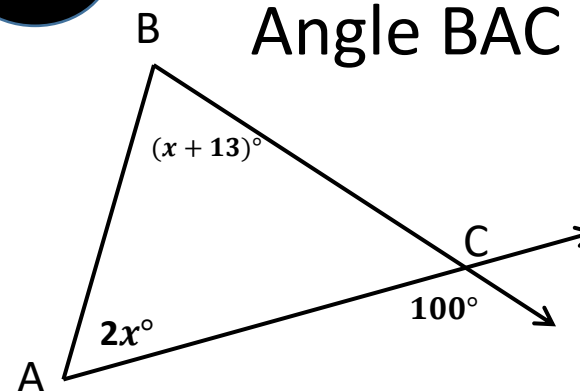
Find the value of Angle ABC



8.G.5

**16**

Find the value of Angle BAC



8.G.5

17

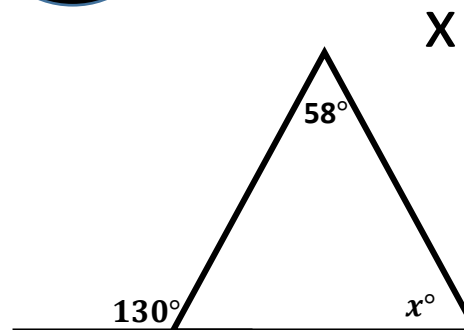
The interior angles of a triangle sum up to

\_\_\_\_\_ degrees.

8.G.5

18

Find the value of

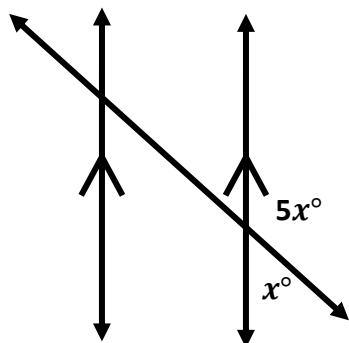


8.G.5

19

Find the value of

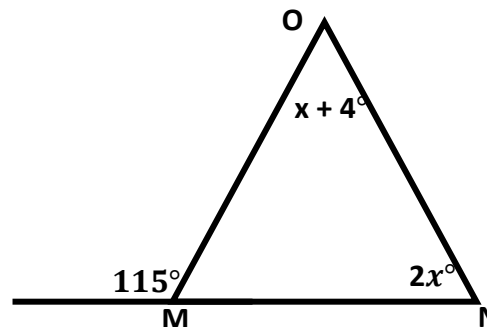
X



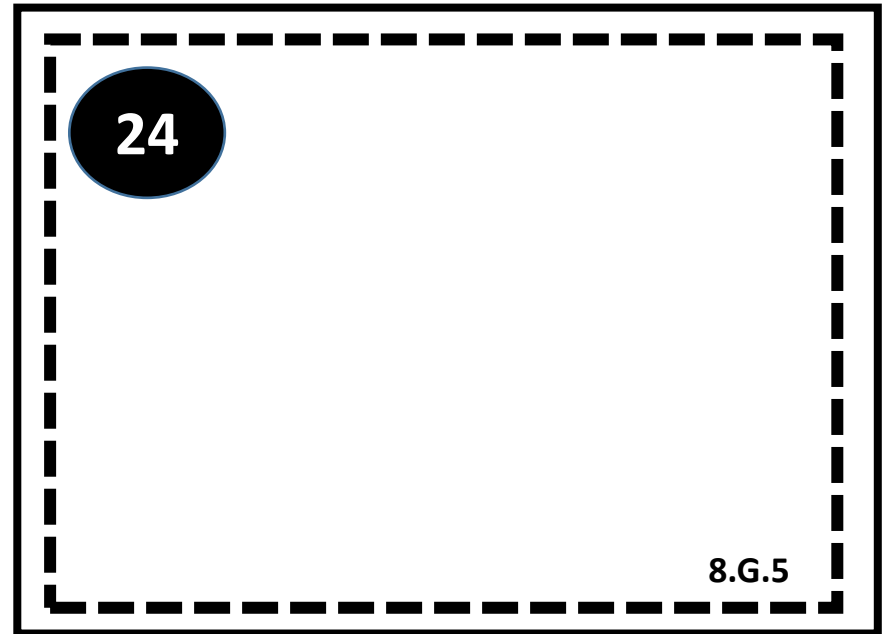
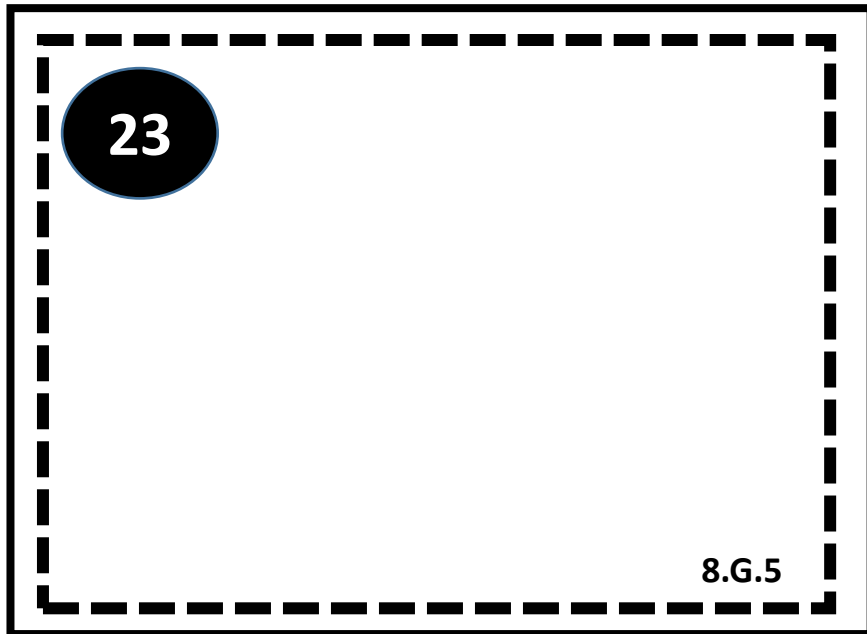
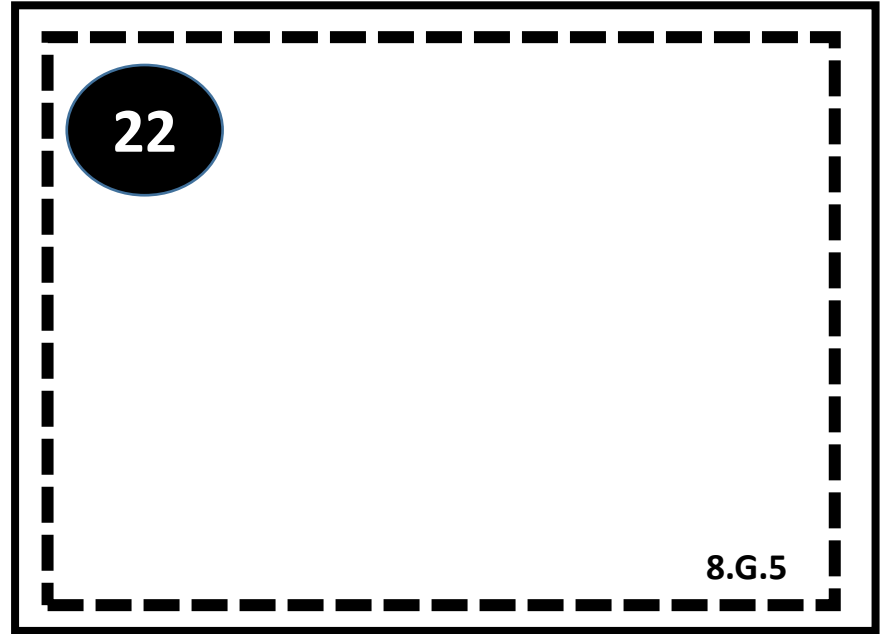
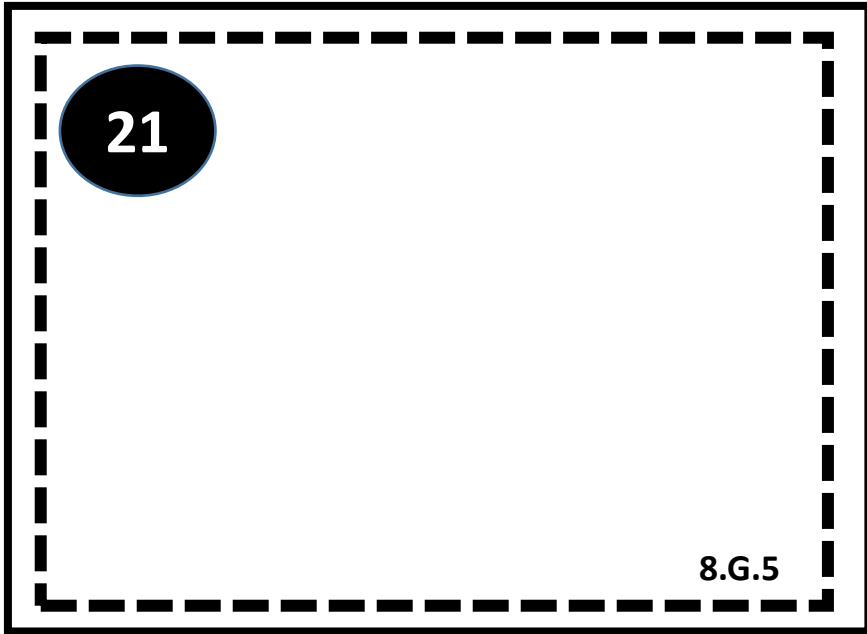
8.G.5

20

Find the value of  
Angle MNO



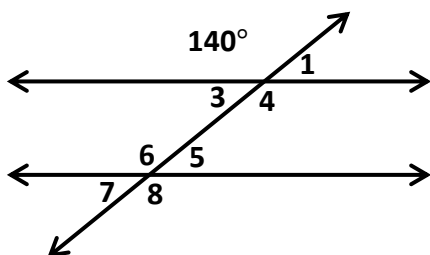
8.G.5





1

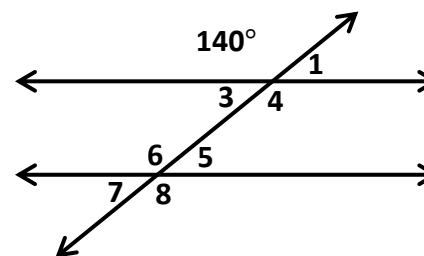
True or False  
The value of angle 5 is  $140^\circ$ .



8.G.5

2

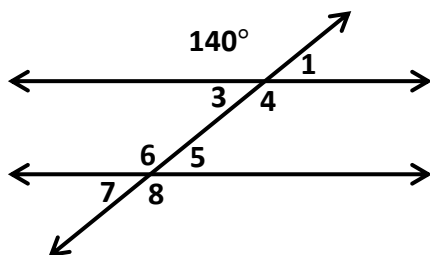
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8.G.5

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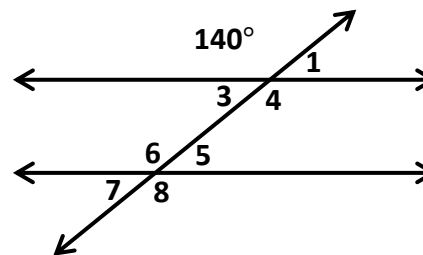
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8.G.5

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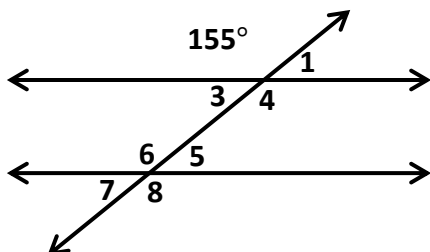
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Angle 1 and Angle 5 are corresponding angles.



8.G.5

5

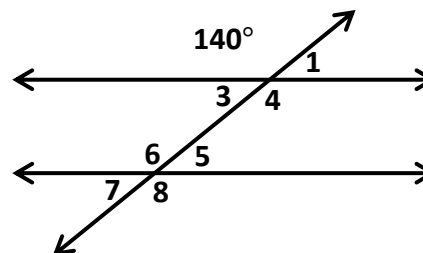
Determine the measure of angle 5.



8.G.5

6

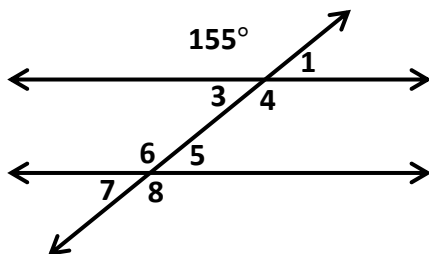
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8.G.5

7

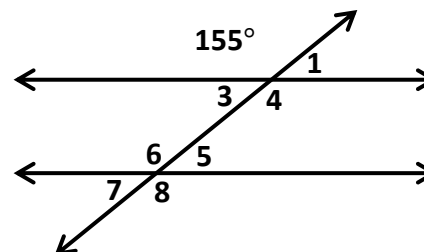
Determine which of the following angles are supplementary to Angle 1.



8.G.5

8

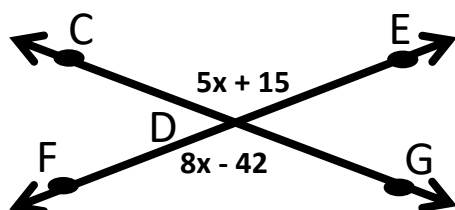
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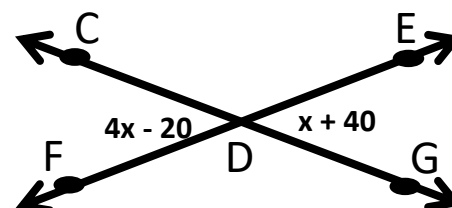
Find the measure  
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8.G.5

10

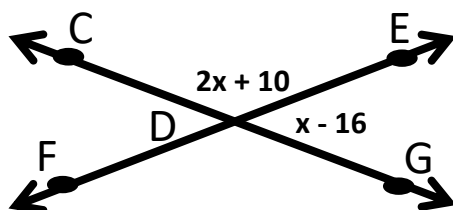
Find the measure  
of angle CDF.



8.G.5

11

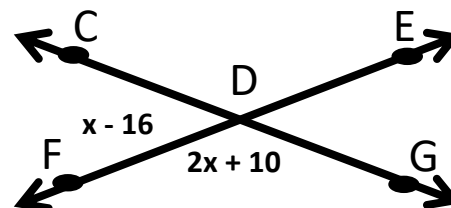
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8.G.5

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Find the measure  
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8.G.5

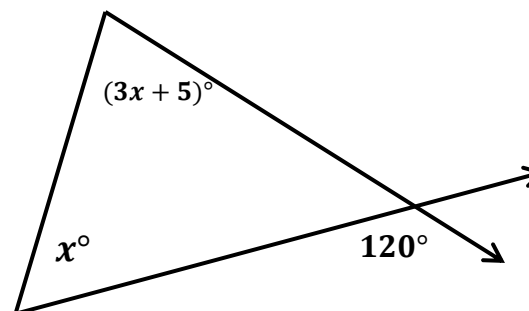
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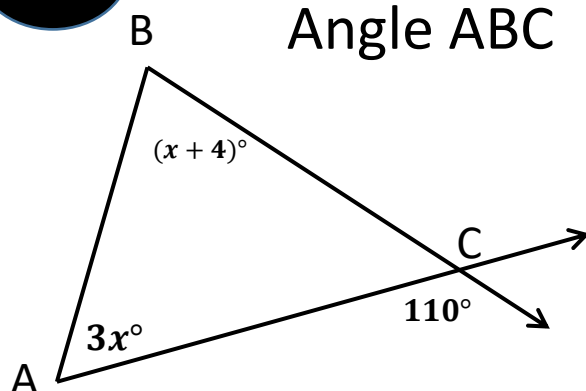
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8.G.5

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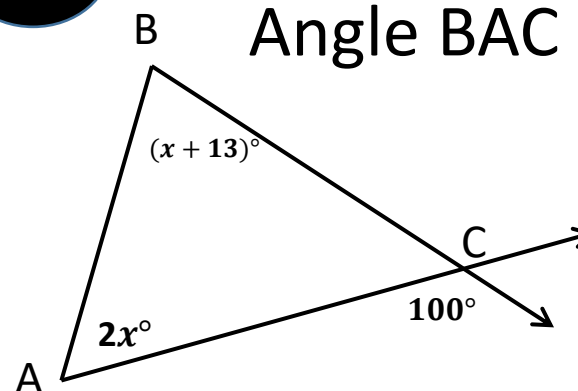
Find the value of Angle ABC



8.G.5

**16**

Find the value of Angle BAC



8.G.5



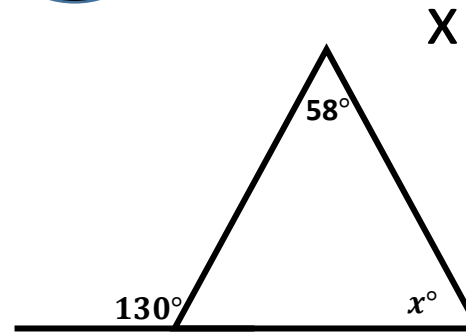
17

The interior angles of a triangle sum up to \_\_\_\_\_ degrees.

8.G.5

18

Find the value of

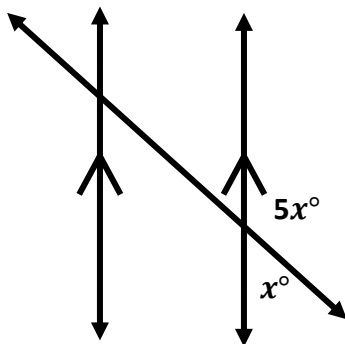


8.G.5

19

Find the value of

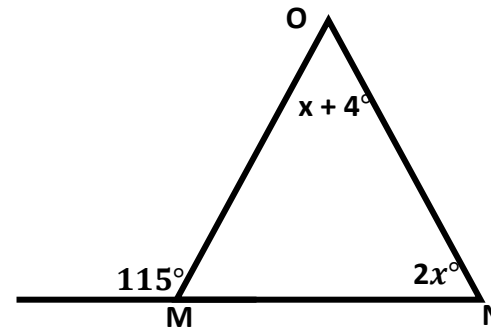
X



8.G.5

20

Find the value of  
Angle MNO



8.G.5

21

8.G.5

22

8.G.5

23

8.G.5

24

8.G.5

Name \_\_\_\_\_

Hour \_\_\_\_\_

# 8.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.



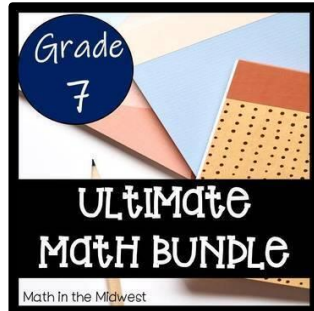
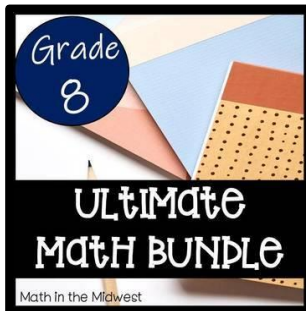
# Answer Key

Number	Answer
1	<i>False</i>
2	<i>False</i>
3	<i>True</i>
4	<i>True</i>
5	$25^\circ$
6	$140^\circ$
7	<i>Angle 4, 6, and 8</i>
8	<i>Angle 1, 3, 5 &amp; 7</i>
9	$110^\circ$
10	$60^\circ$

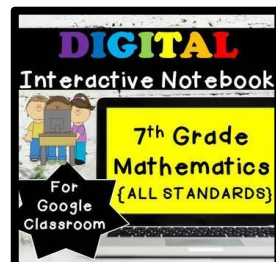
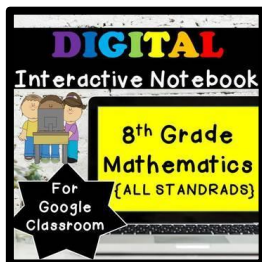
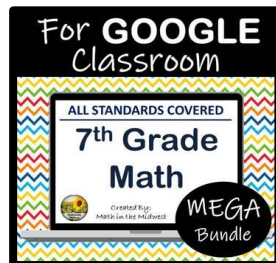
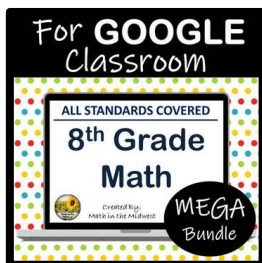
Number	Answer
11	$46^\circ$
12	$134^\circ$
13	<i>Exterior Angle Theorem</i>
14	$x = 28.75$
15	$30.5^\circ$
16	$58^\circ$
17	$180^\circ$
18	$x = 72$
19	$x = 30$
20	$74^\circ$

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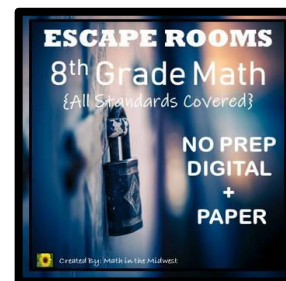
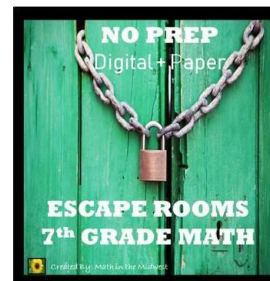
## Ultimate Bundles:



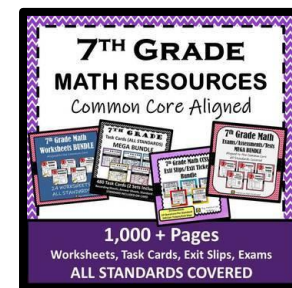
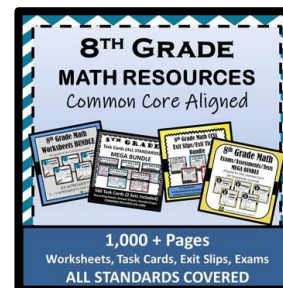
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## Escape Rooms:



## PDF Bundles:



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