

20 Task Cards, Recording Sheet, Answer Sheet

Verify experimentally the properties of rotations, reflections, and translations.



8.G.1

Verify experimentally
the properties of
rotations, reflections,
and translations.

1

Which of the following figures are congruent to Figure A?

Figure A



Figure B



Figure C



Figure D



8.G.1

2

Determine how you can move from Figure A to the congruent Figure B by either translating, rotating, or reflecting.

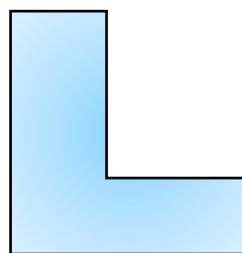


Figure A

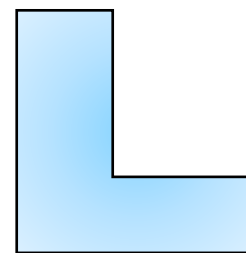


Figure A

8.G.1

3

Determine how you can move from Figure A to the congruent Figure B by either translating, rotating, or reflecting.

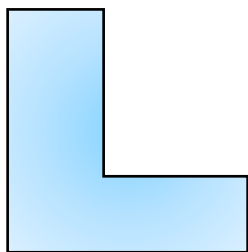


Figure A

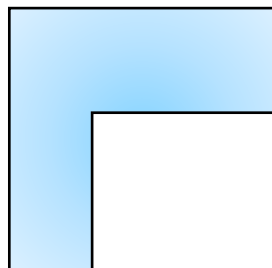


Figure B

8.G.1

4

Determine how you can move from Figure A to the congruent Figure B by either translating, rotating, or reflecting.

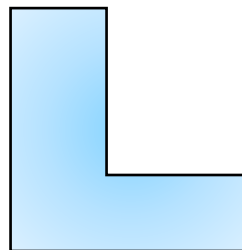


Figure A

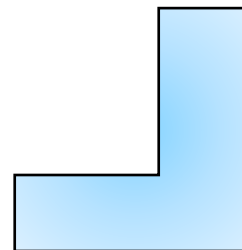


Figure B

8.G.1

5

True or False

A translation
turns an object.

8.G.1

6

True or False

A reflection flips
an object.

8.G.1

7

True or False

A rotation turns
an object.

8.G.1

8

What stays the
same about an
object after a
translation?

8.G.1

9

What stays the same about an object after a rotation?

8.G.1

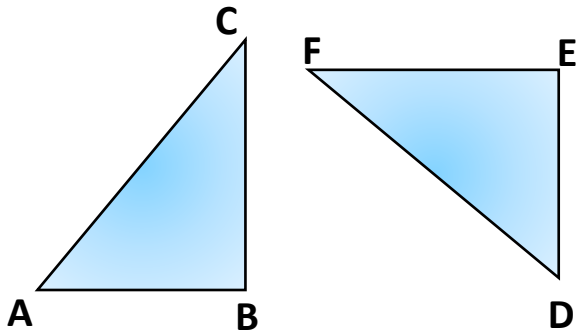
10

What stays the same about an object after a reflection?

8.G.1

11

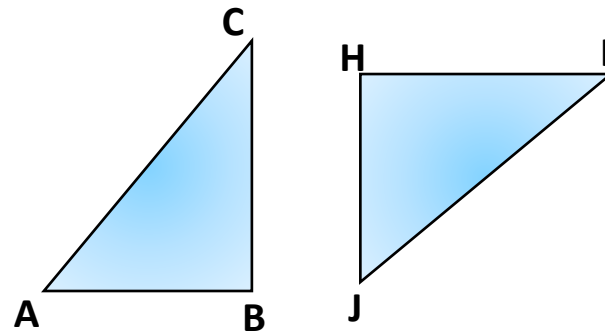
Determine which of the following sides are corresponding:



8.G.1

12

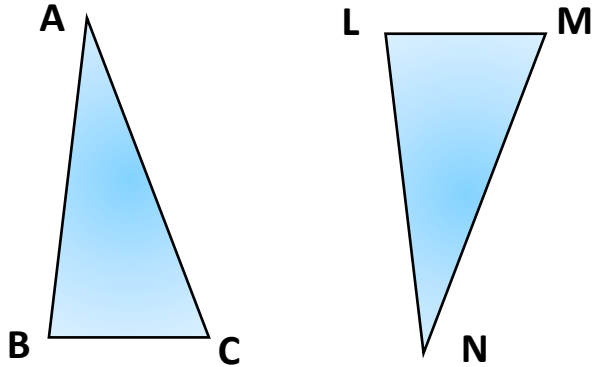
Determine which angle corresponds with angle A.



8.G.1

13

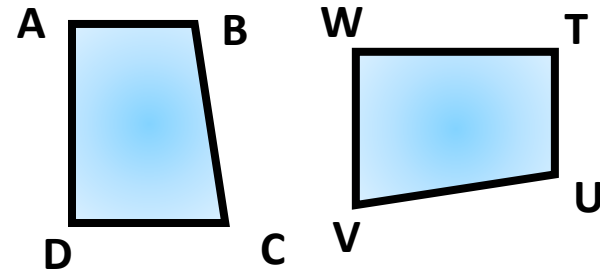
Determine which angle corresponds with angle C.



8.G.1

14

Determine what sides corresponds with side BC



8.G.1

15

What do you need to know in order to perform a translation?

8.G.1

16

What do you need to know in order to perform a rotation?

8.G.1

17

What do you
need to know in
order to perform
a reflection?

8.G.1

18

What changes
about the shape
after a rotation?

8.G.1

19

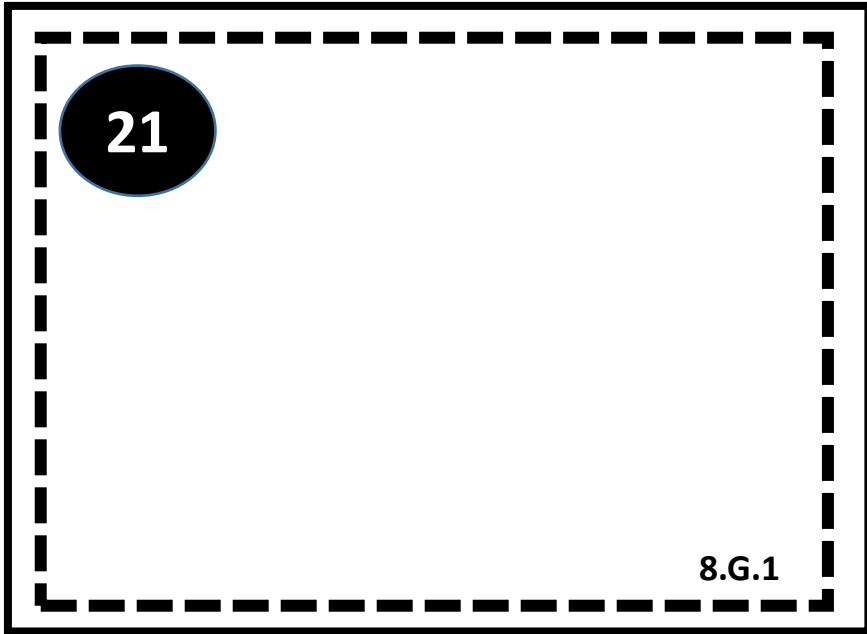
What changes
about the shape
after a
translation?

8.G.1

20

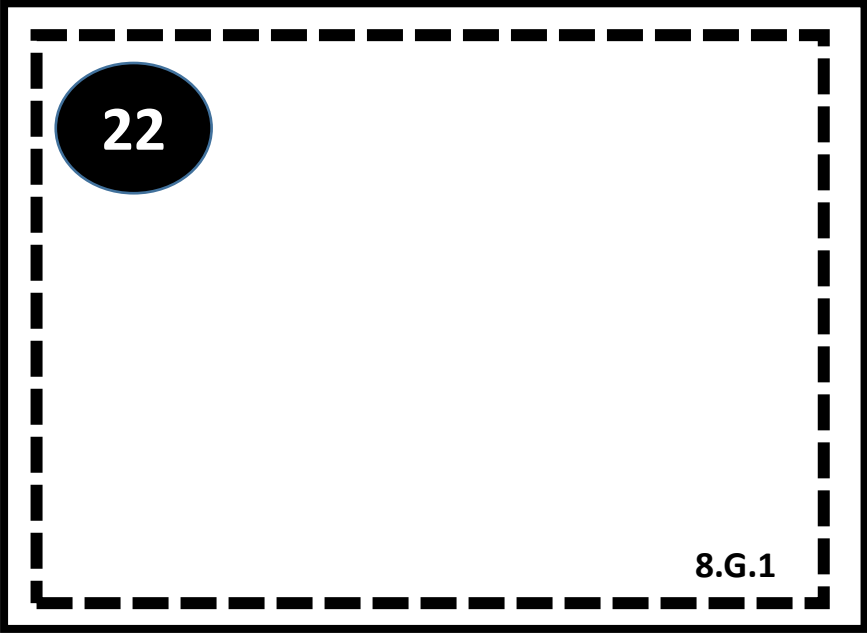
What changes
about the shape
after a reflection?

8.G.1



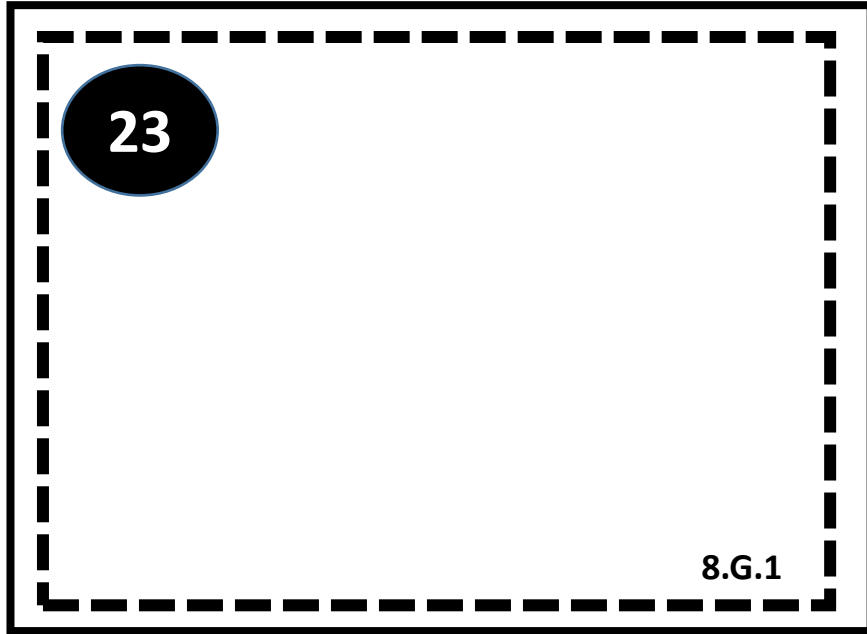
21

8.G.1



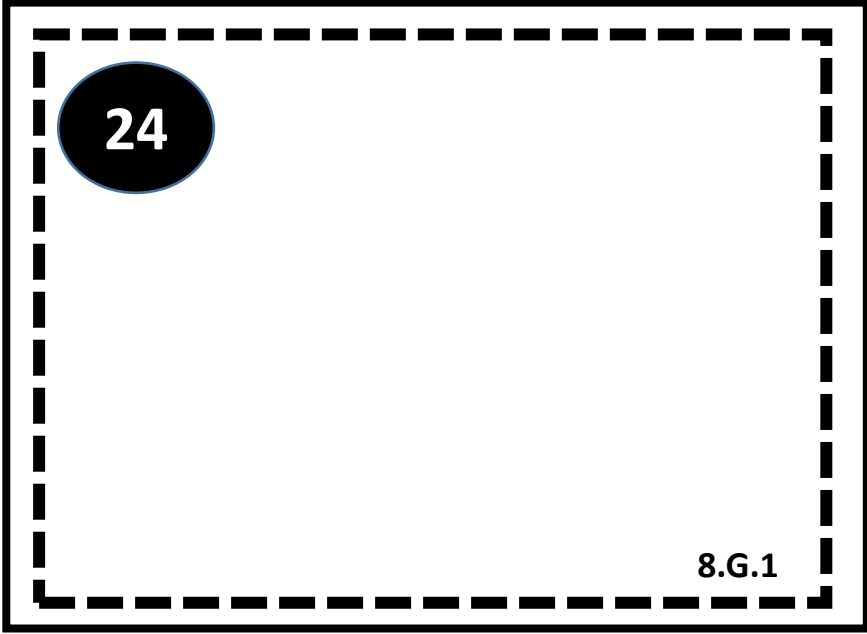
22

8.G.1



23

8.G.1



24

8.G.1

1

Which of the following figures are congruent to Figure A?

Figure A



Figure B



Figure C



Figure D

8.G.1

2

Determine how you can move from Figure A to the congruent Figure B by either translating, rotating, or reflecting.

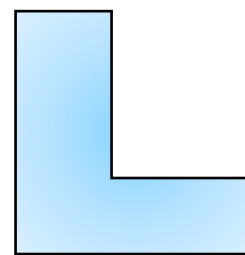


Figure A

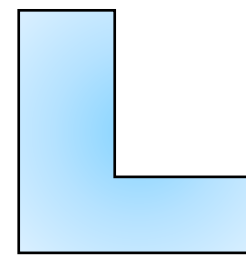


Figure A

8.G.1

3

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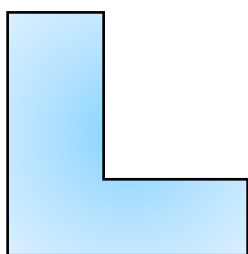


Figure A

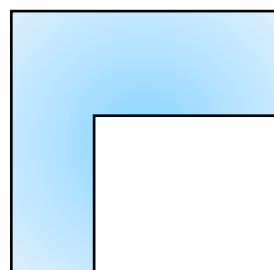


Figure B

8.G.1

4

Determine how you can move from Figure A to the congruent Figure B by either translating, rotating, or reflecting.

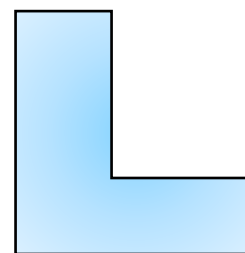


Figure A

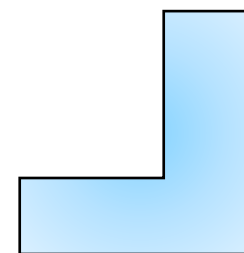


Figure B

8.G.1

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turns an object.

8.G.1

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8.G.1

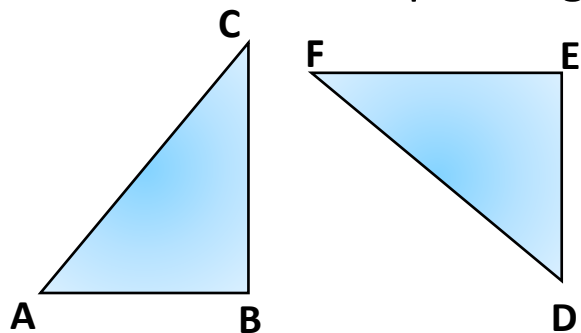
10

What stays the same about an object after a reflection?

8.G.1

11

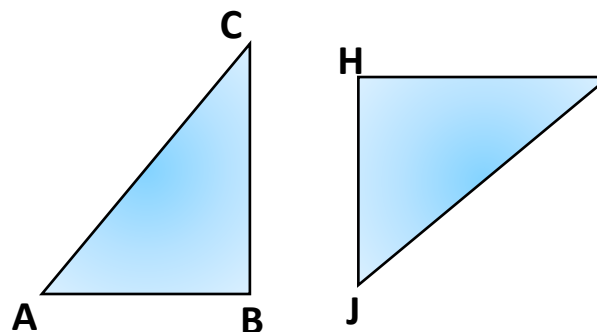
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8.G.1

12

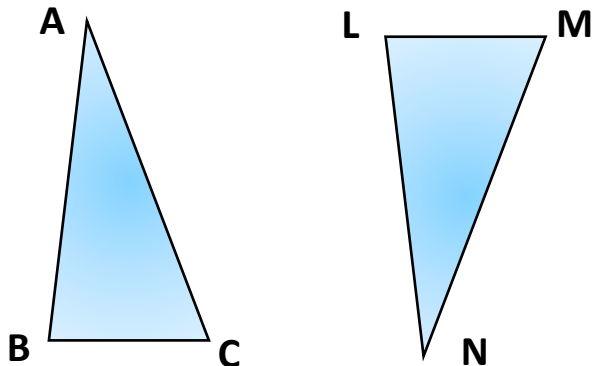
Determine which angle corresponds with angle A.



8.G.1

13

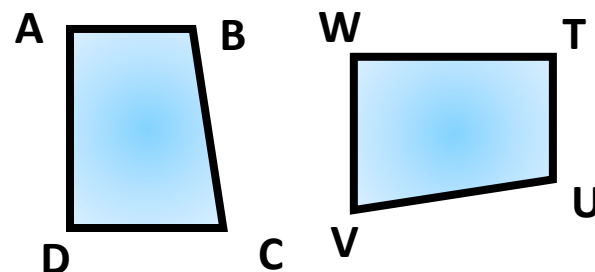
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after a rotation?

8.G.1

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8.G.1

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What changes
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after a
translation?

8.G.1

21

8.G.1

22

8.G.1

23

8.G.1

24

8.G.1

Name _____

Hour _____

8.G.1 Recording Sheet

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

Name _____

Hour _____

10.

11.

12.

13.

14.

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20.

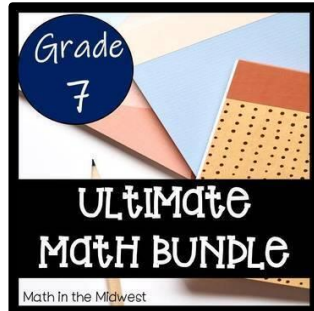
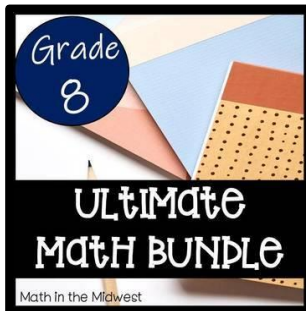
Answer Key

Number	Answer
1	<i>C</i>
2	<i>Translation</i>
3	<i>Rotation</i>
4	<i>Reflection</i>
5	<i>False</i>
6	<i>True</i>
7	<i>True</i>
8	<i>size & shape</i>
9	<i>shape & orientation</i>
10	<i>size & shape</i>

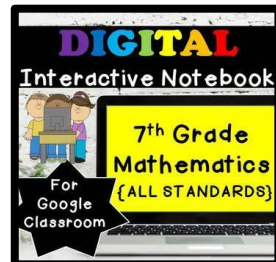
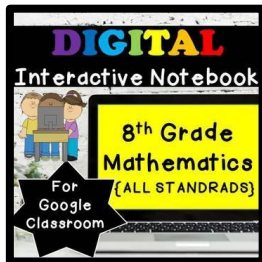
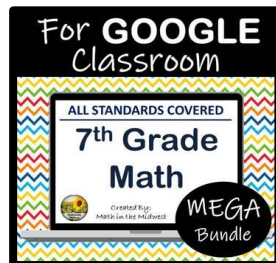
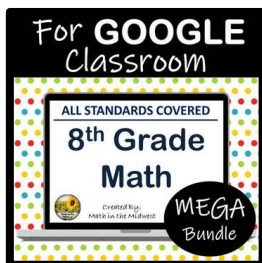
Number	Answer
11	<i>AC – FD, BC – ED, and AB – FE</i>
12	<i>Angle J</i>
13	<i>Angle M</i>
14	<i>UV</i>
15	<i>direction you are moving & how far</i>
16	<i>direction of rotation & degree of rotation</i>
17	<i>line of reflection</i>
18	<i>orientation & location</i>
19	<i>location</i>
20	<i>orientation (sometimes) & location</i>

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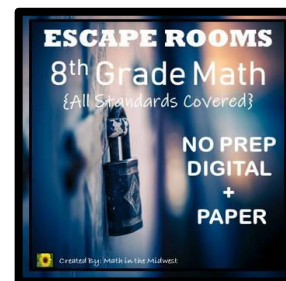
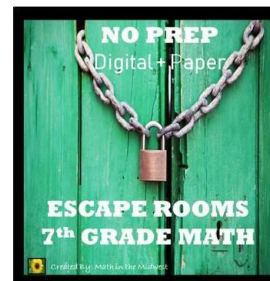
Ultimate Bundles:



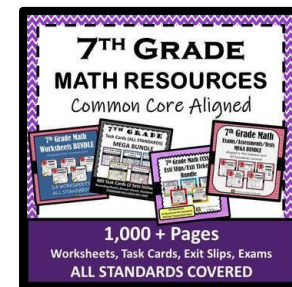
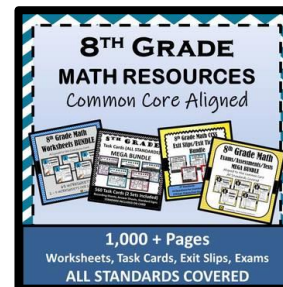
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