



**THIRD SPACE
LEARNING**

Congruent Shapes Worksheet

Geometry

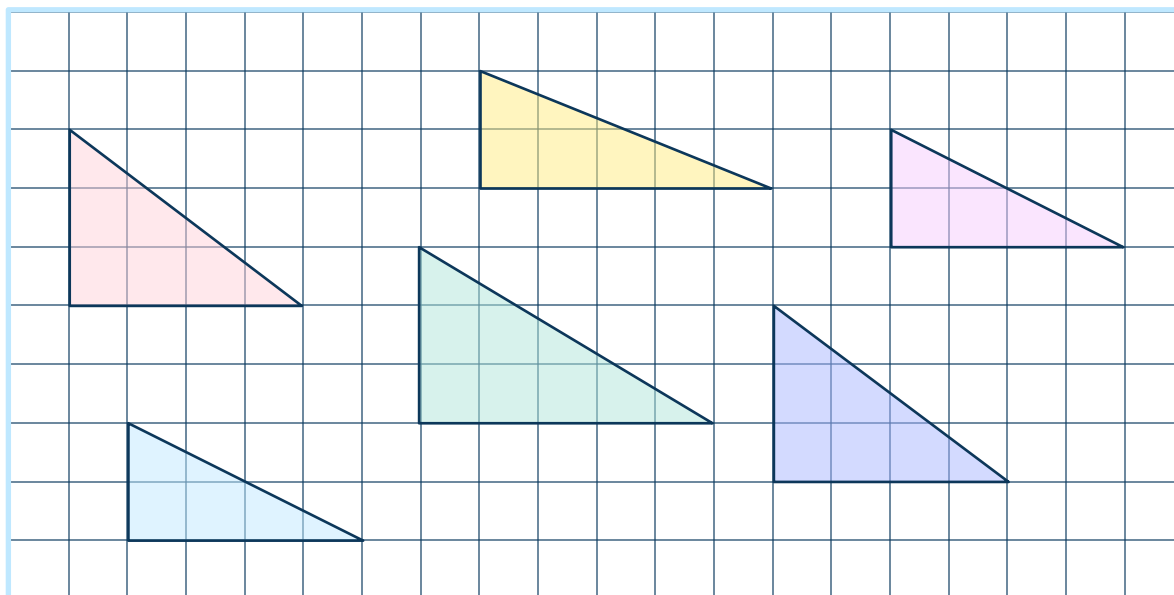
Grades 6 to 8

Questions

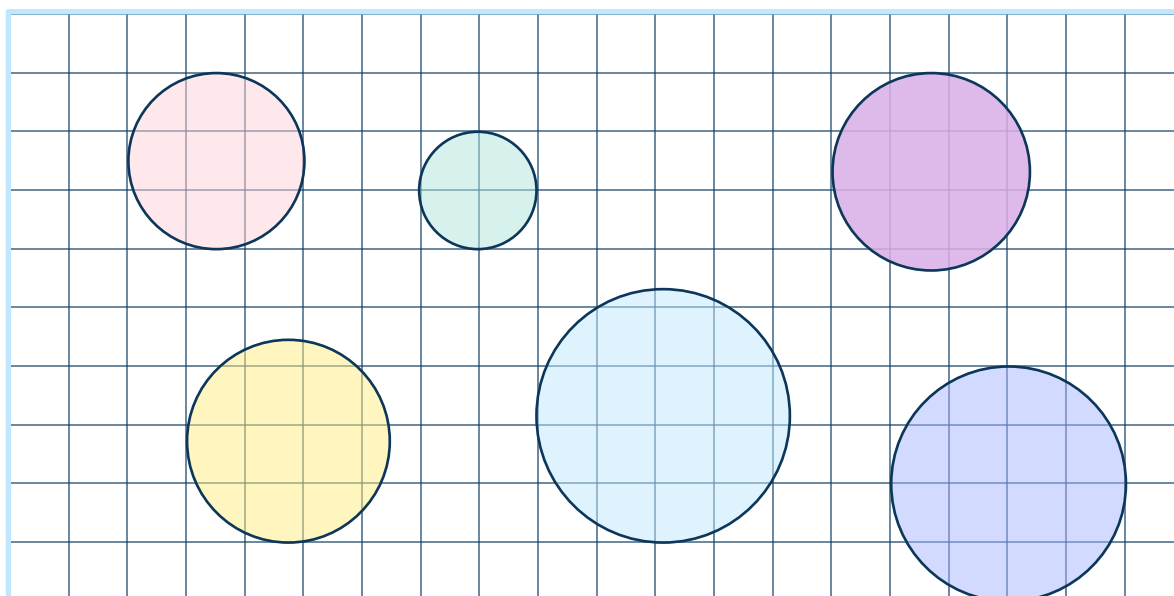
Name:

Date:

1 Circle the two shapes that appear to be congruent.

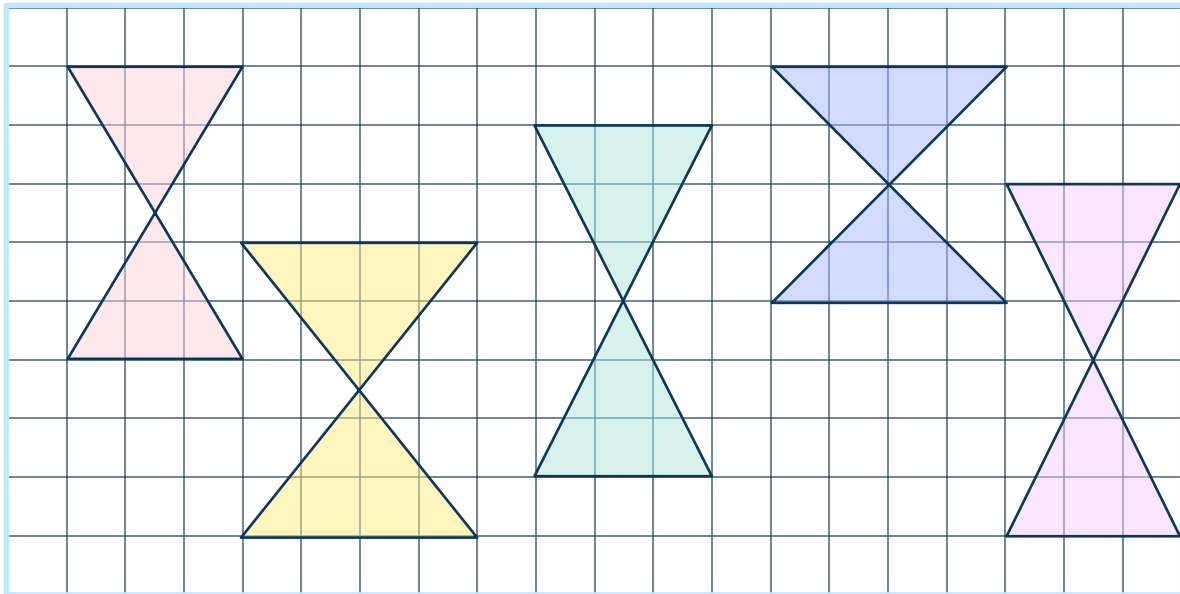


2 Circle the two shapes that appear to be congruent.

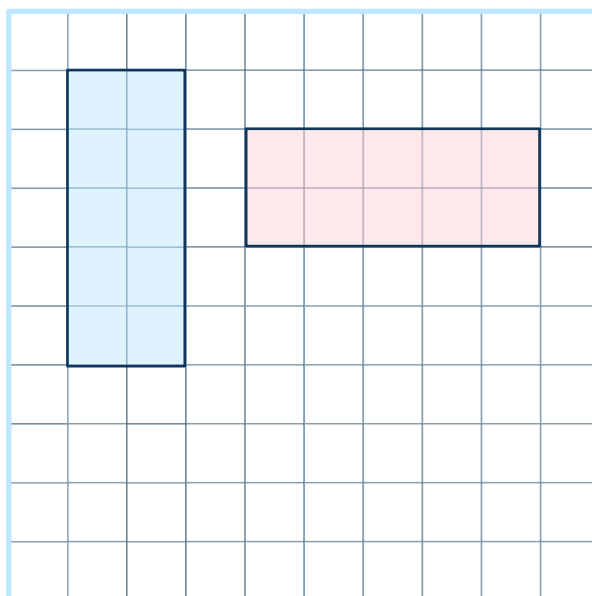


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3 Circle the two shapes that appear to be congruent.



4 Are these two rectangles congruent? Label the sides and angles, then explain.

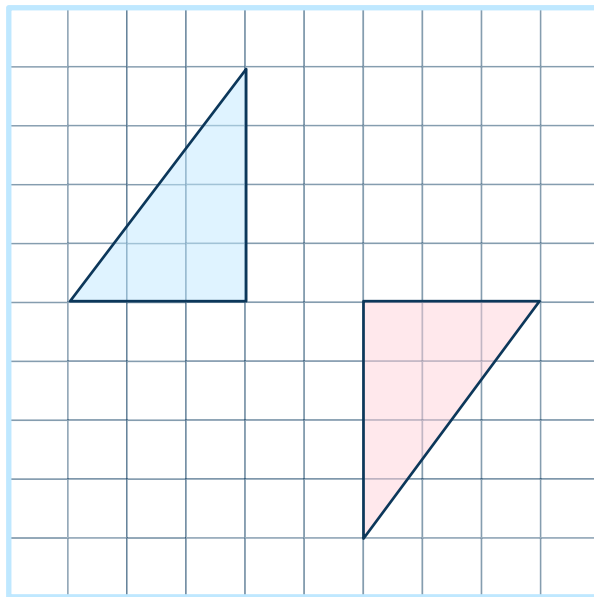


Answer

A dashed rectangular box for writing the answer.

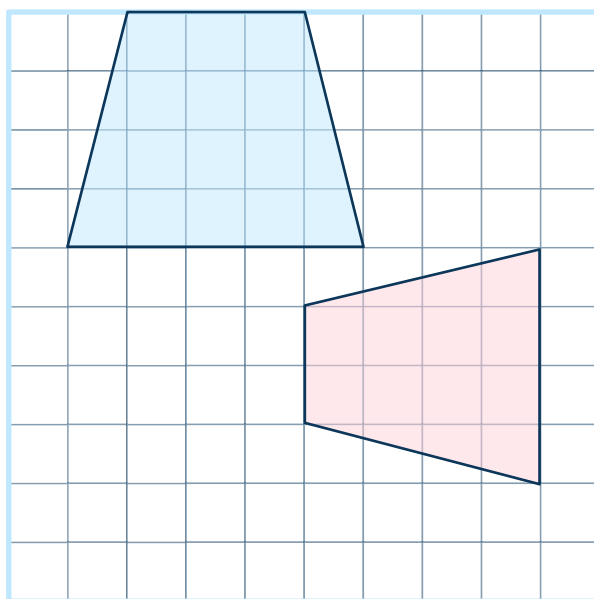
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- 5 Are these two triangles congruent? Label the sides and angles, then explain.



Answer

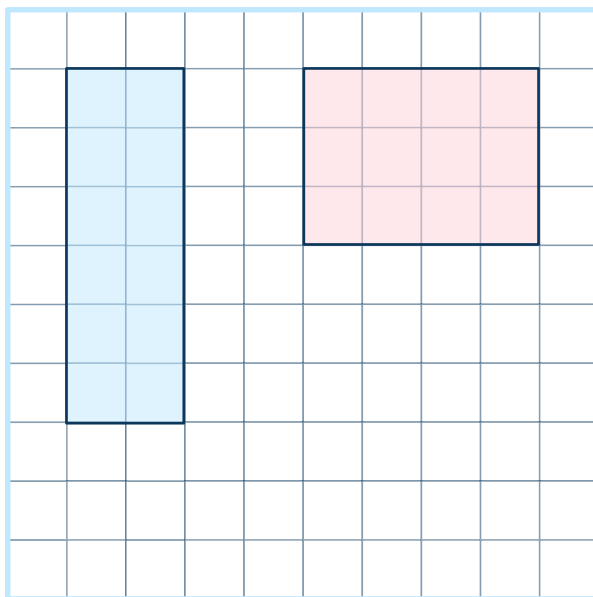
- 6 Are these two trapezoids congruent? Explain.



Answer

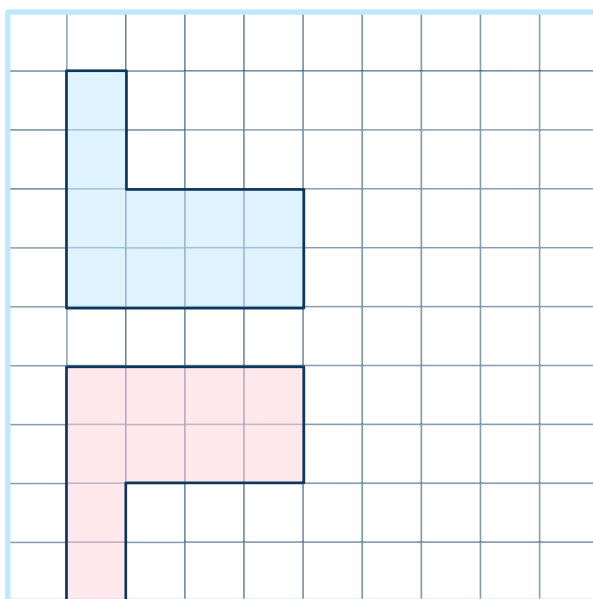
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7 Are these two rectangles congruent? Explain.



Answer

8 Are these two rectangles congruent? Explain.

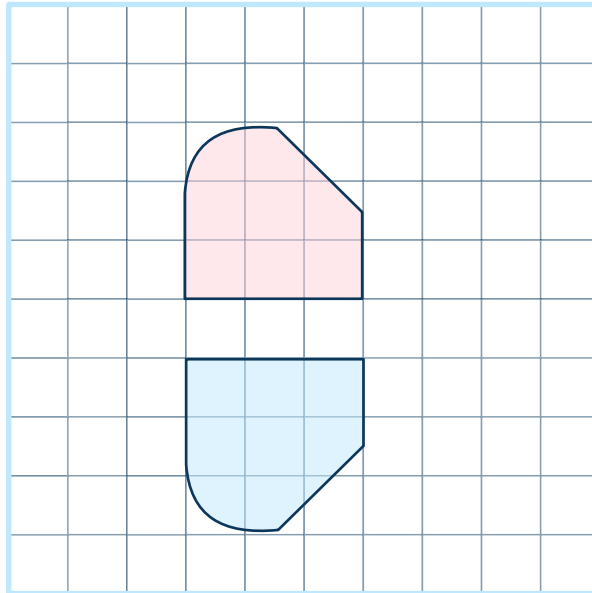


Answer

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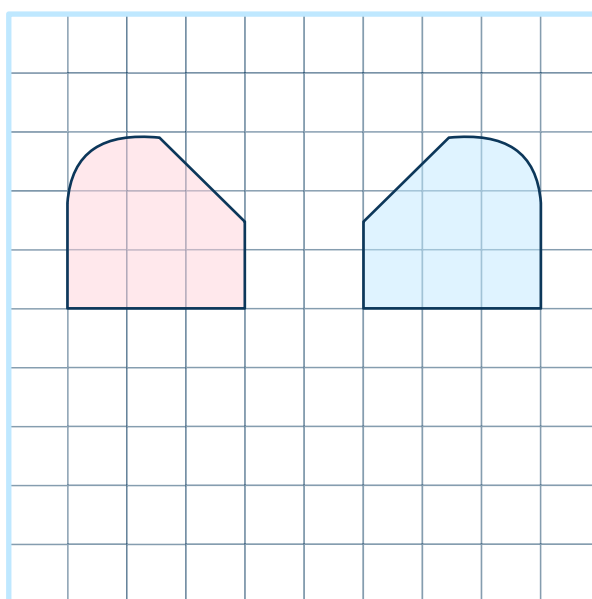
For questions 9-12, decide if the shape's transformation was a reflection, rotation or translation.

- 9 Aisha translated from the pink to blue shape in one transformation. Which transformation did she use? Explain.



Answer

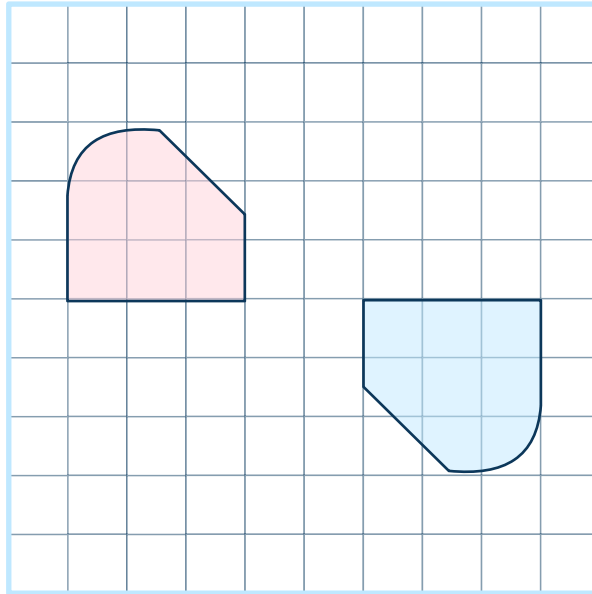
- 10 Hiroshi translated from the pink to blue shape in one transformation. Which transformation did he use? Explain.



Answer

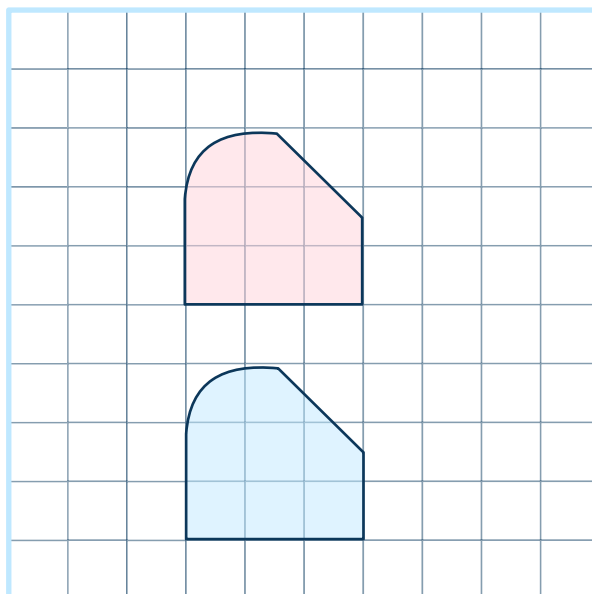
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- 11** Isabella translated from the pink to blue shape in one transformation. Which transformation did she use? Explain.



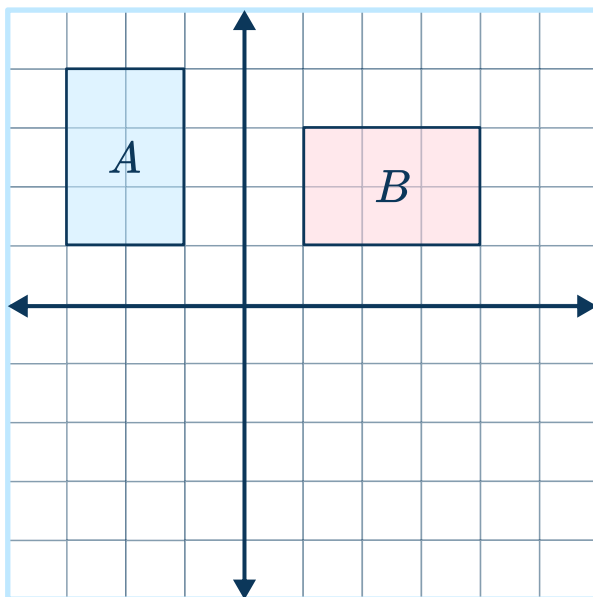
Answer

-
- 12** Karim translated from the pink to blue shape in one transformation. Which transformation did he use? Explain.



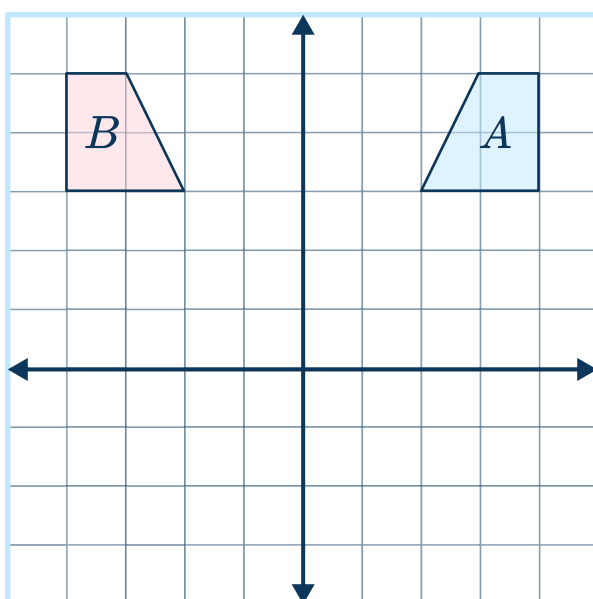
Answer

13 Describe a sequence to map shape A onto shape B.



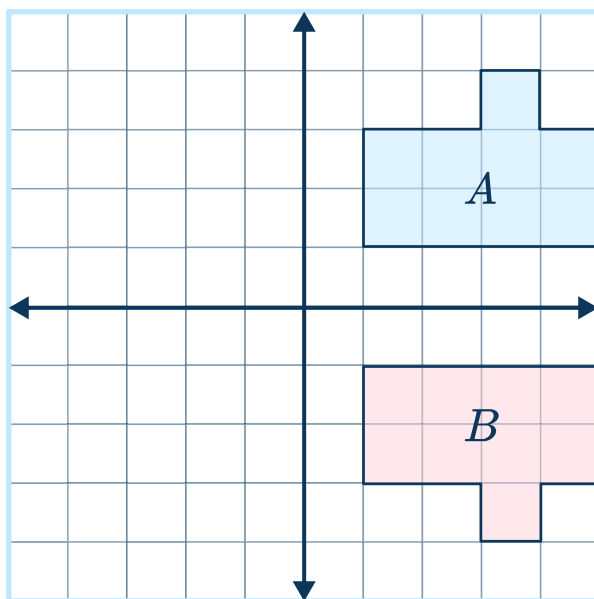
Answer

14 Describe a sequence to map trapezoid A to trapezoid B.



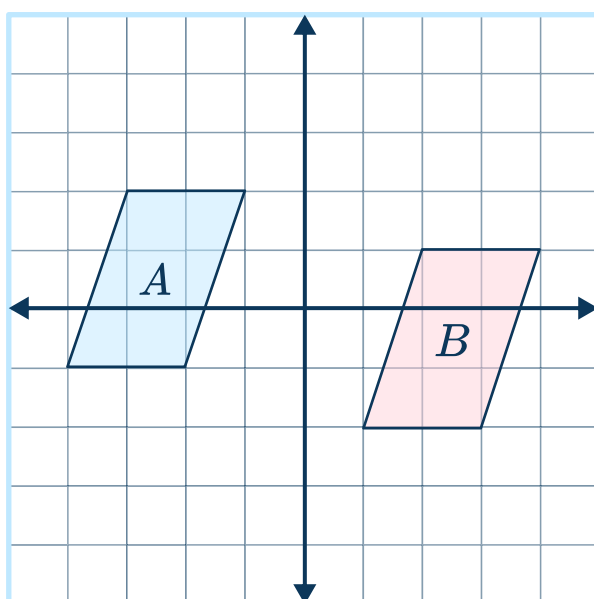
Answer

15 Describe a sequence to map rectangle A to rectangle B.



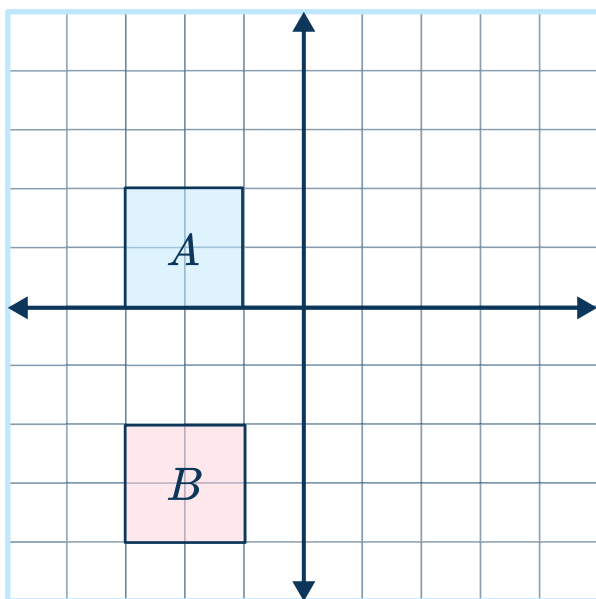
Answer

16 Describe a sequence to map parallelogram A to parallelogram B.



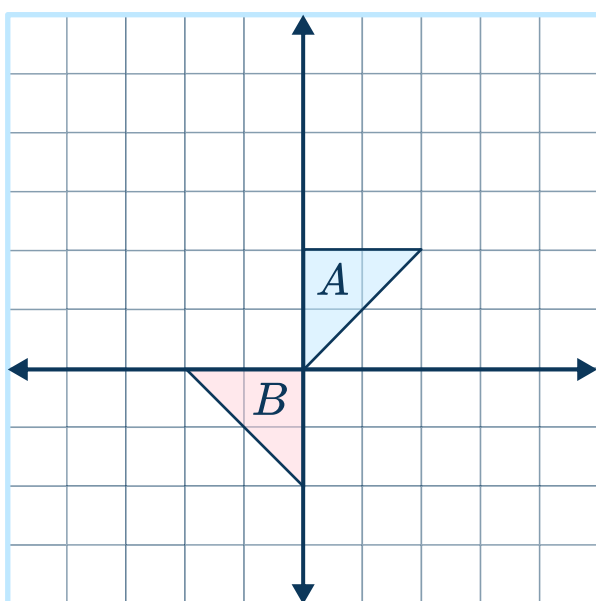
Answer

17 Describe a sequence to map square A to square B.



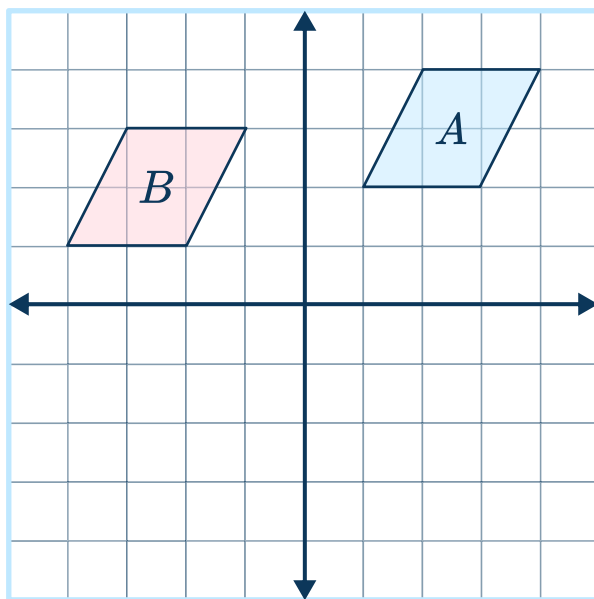
Answer

18 Describe a sequence to map triangle A to triangle B.



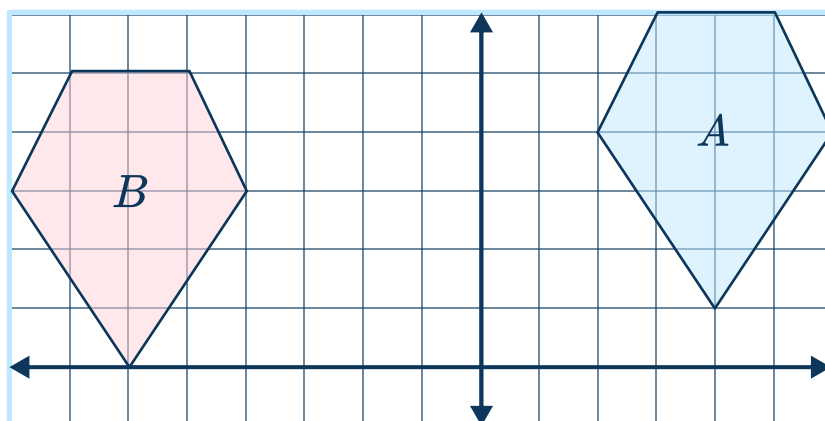
Answer

19 Describe a sequence to map parallelogram A to parallelogram B.



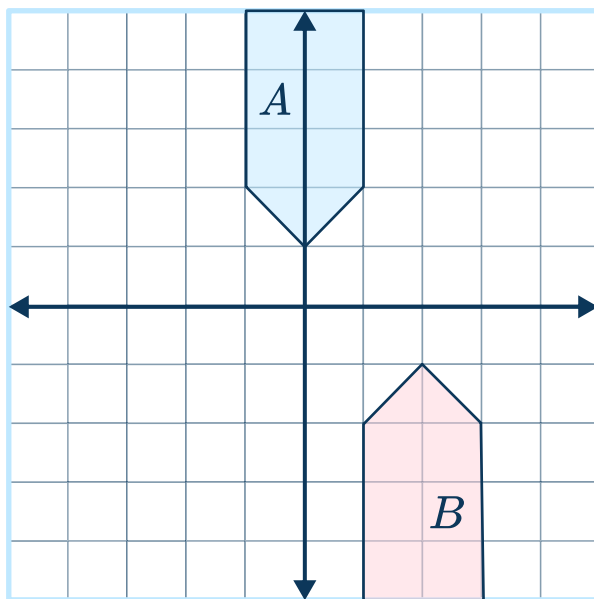
Answer

20 Describe a sequence to map pentagon A to pentagon B.



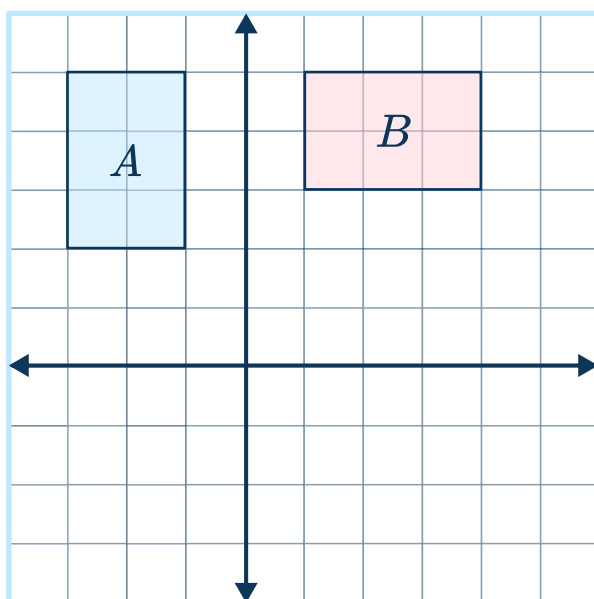
Answer

21 Describe a sequence to map shape A to shape B.



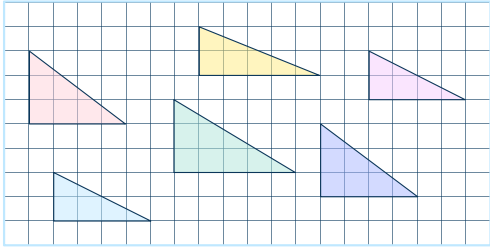
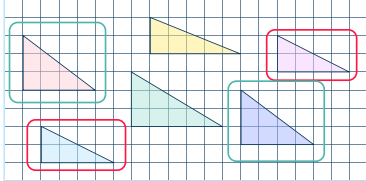
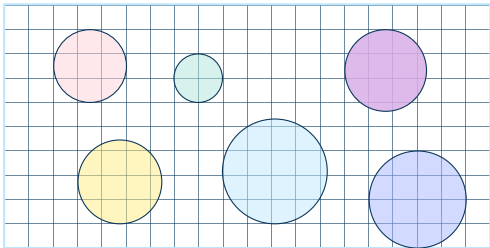
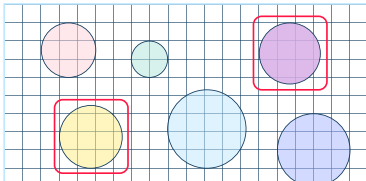
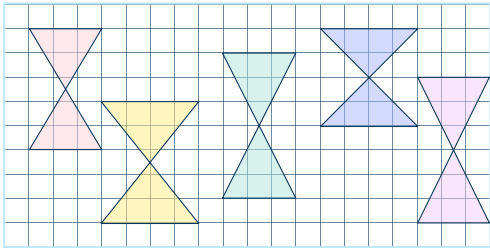
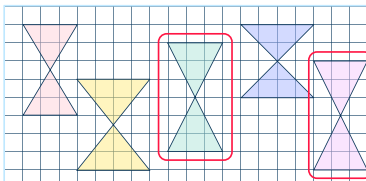
Answer

22 Describe a sequence to map Triangle A to Triangle B.

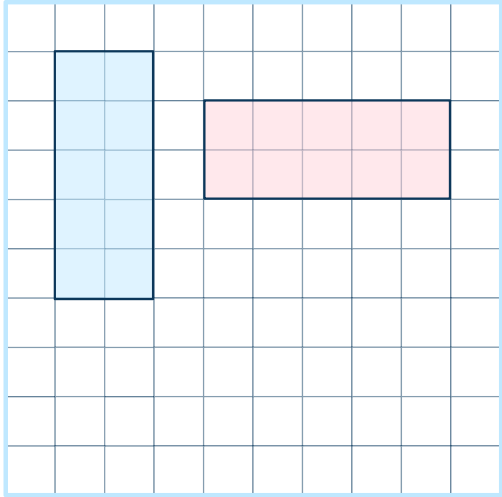
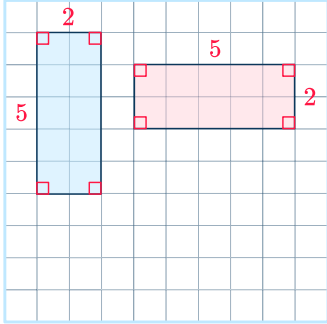
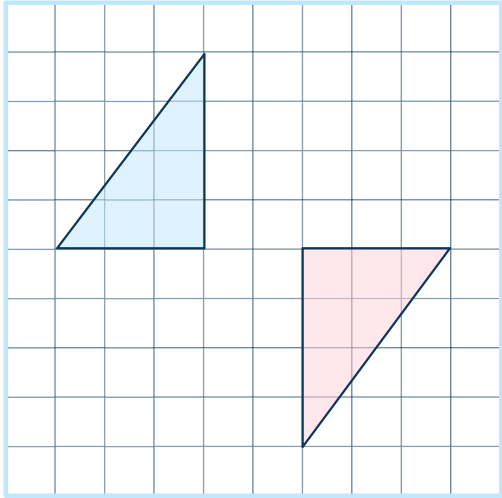
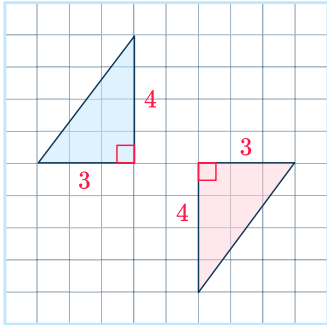


Answer

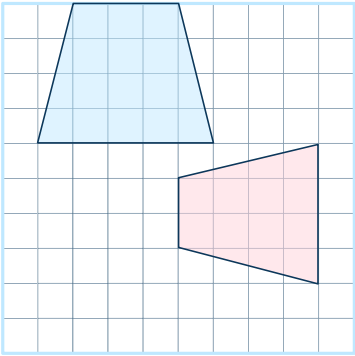
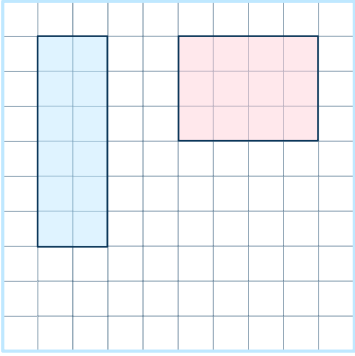
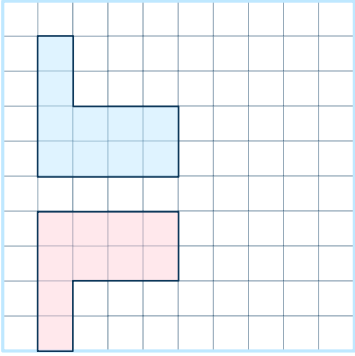
Answers

Question number	Question	Answers	Standard
1	<p>Circle the two shapes that appear to be congruent.</p> 		8.G.A.2
2	<p>Circle the two shapes that appear to be congruent.</p> 		8.G.A.2
3	<p>Circle the two shapes that appear to be congruent.</p> 		8.G.A.2

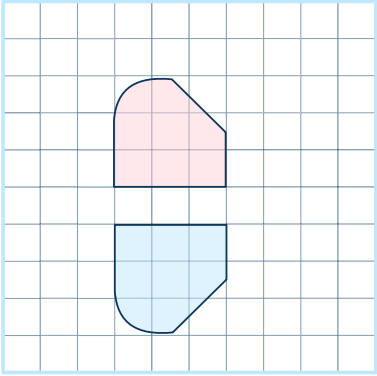
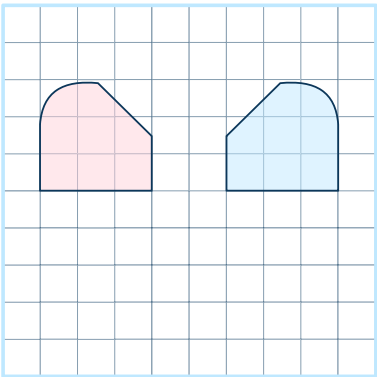
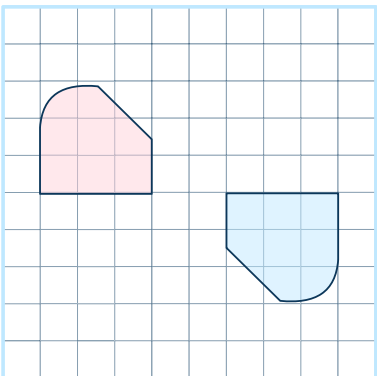
Congruent Shapes Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
4	<p>Are these two rectangles congruent? Label the sides and angles, then explain.</p> 	 <p>Yes; explanations may vary. Example explanation: They both have four 90 degree angles, with two sides measuring 2 units and two sides measuring 5 units.</p>	8.G.A.2
5	<p>Are these two triangles congruent? Label the sides and angles, then explain.</p> 	 <p>Yes; explanations may vary. Example explanation: They are both right triangles with a base of 3 units and a height of 4 units.</p>	8.G.A.2

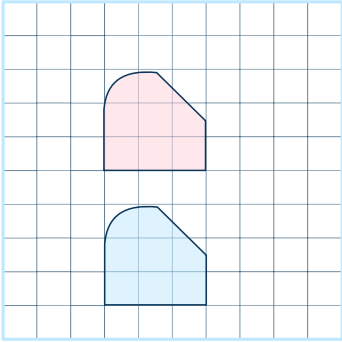
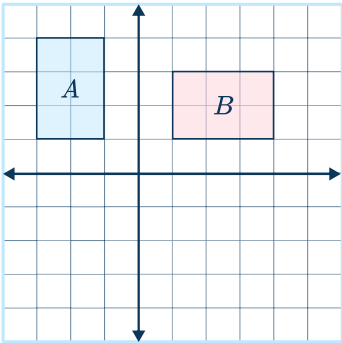
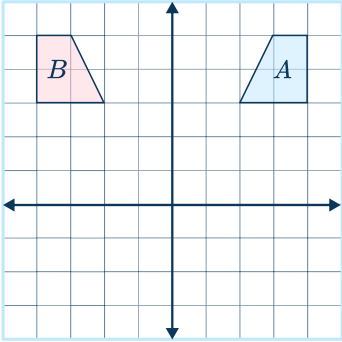
Congruent Shapes Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
6	<p>Are these two trapezoids congruent? Explain.</p> 	<p>No; explanations may vary. Example explanation: The base of one is 5 units and the corresponding base of the other is 4 units.</p>	8.G.A.2
7	<p>Are these two rectangles congruent? Explain.</p> 	<p>No; explanations may vary. Example explanation: One has a base and height of 2 and 6 units and the other has a base and height of 3 and 4 units.</p>	8.G.A.2
8	<p>Are these two rectangles congruent? Explain.</p> 	<p>Yes; explanations may vary. Example explanation: They are both composed of a 2 by 4 rectangle with a 2 by 1 rectangle joined at the corner, giving them the same angle measurements and dimensions.</p>	8.G.A.2

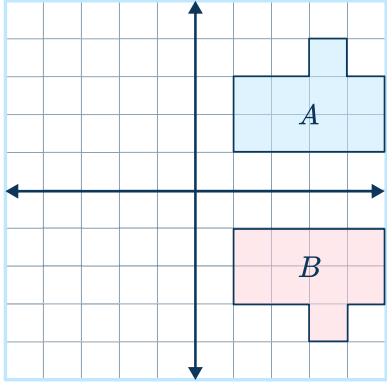
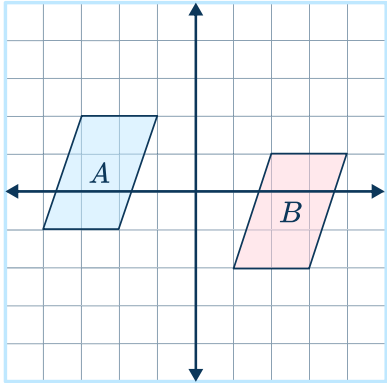
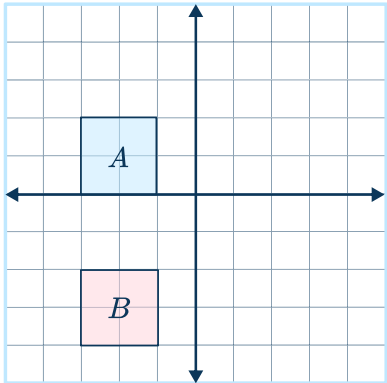
Congruent Shapes Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
9	<p>Aisha translated from the pink to blue shape in one transformation. Which transformation did she use? Explain.</p> 	<p>Reflection; explanations may vary. Example explanation: If the shapes were on a paper and you folded them over, all their sides would line up.</p>	8.G.A.2
10	<p>Hiroshi translated from the pink to blue shape in one transformation. Which transformation did he use? Explain.</p> 	<p>Reflection; explanations may vary. Example explanation: If the shapes were on a paper and you folded them over, all their sides would line up.</p>	8.G.A.2
11	<p>Isabella translated from the pink to blue shape in one transformation. Which transformation did she use? Explain.</p> 	<p>Rotation; explanations may vary. Example explanation: If the pink shape was on a paper and you turned the paper around, it would match the blue shape.</p>	8.G.A.2

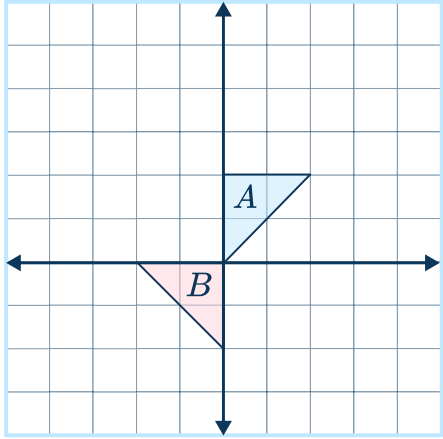
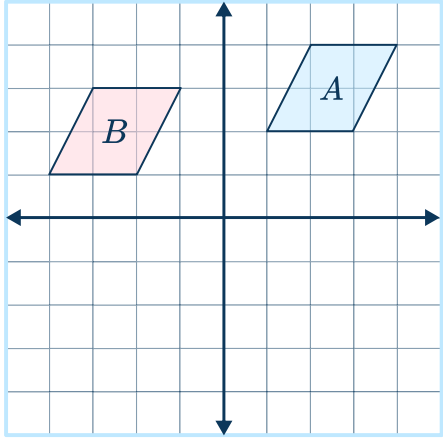
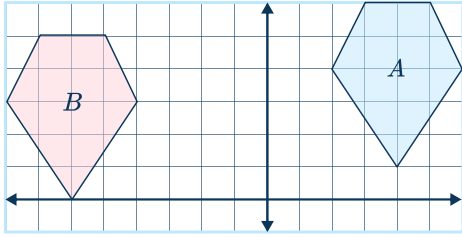
Congruent Shapes Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
12	<p>Karim translated from the pink to blue shape in one transformation. Which transformation did he use? Explain.</p> 	<p>Translation; explanations may vary. Example explanation: The pink shape was just shifted down 4 units.</p>	8.G.A.2
13	<p>Describe a sequence to map shape A onto shape B.</p> 	<p>Any of the following answers is correct:</p> <ul style="list-style-type: none"> • Rotation 90 degrees clockwise about the origin • Rotation 270 degrees counterclockwise about the origin 	8.G.A.2
14	<p>Describe a sequence to map trapezoid A to trapezoid B.</p> 	<p>Reflection over the y-axis</p>	8.G.A.2

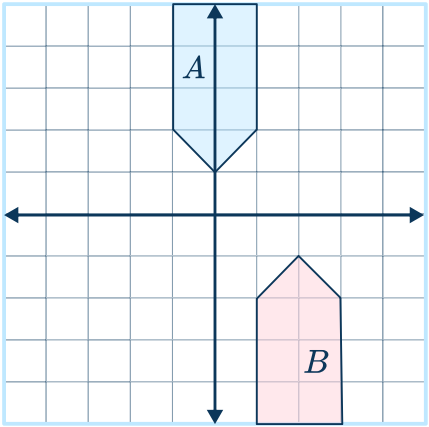
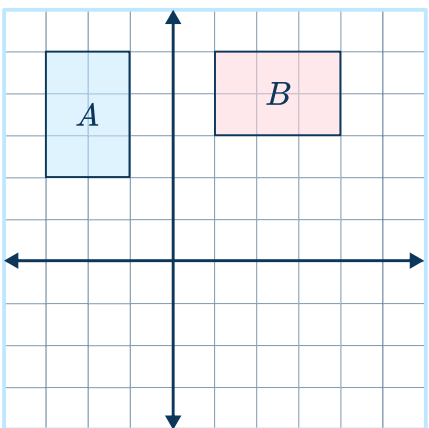
Congruent Shapes Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
15	<p>Describe a sequence to map rectangle A to rectangle B.</p> 	<p>Reflection over the x - axis</p>	8.G.A.2
16	<p>Describe a sequence to map parallelogram A to parallelogram B.</p> 	<p>Any of the following answers is correct:</p> <ul style="list-style-type: none"> • Rotation 180 degrees about the origin • Rotation 180 degrees clockwise • Rotation 180 degrees counterclockwise • Translation 5 units right and 1 unit down 	8.G.A.2
17	<p>Describe a sequence to map square A to square B.</p> 	<p>Any of the following answers is correct:</p> <ul style="list-style-type: none"> • Translation down 4 units • Reflection over the x - axis and then translation 2 units down 	8.G.A.2

Congruent Shapes Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
18	<p>Describe a sequence to map triangle A to triangle B.</p> 	<p>Any of the following answers is correct:</p> <ul style="list-style-type: none"> • Rotation 180 degrees about the origin • Rotation 180 degrees clockwise • Rotation 180 degrees counterclockwise • Reflection over the y-axis and reflection over the x-axis 	8.G.A.2
19	<p>Describe a sequence to map parallelogram A to parallelogram B.</p> 	<p>Translation 5 units left and translation 1 unit down</p>	8.G.A.2
20	<p>Describe a sequence to map pentagon A to pentagon B.</p> 	<p>Any of the following answers is correct:</p> <ul style="list-style-type: none"> • Reflection over the y-axis, translation 2 units left, and translation 1 unit down • Translation 10 units left and translation 1 unit down 	8.G.A.2

Congruent Shapes Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
21	<p>Describe a sequence to map shape A to shape B.</p> 	<p>Any of the following answers is correct:</p> <ul style="list-style-type: none"> • Rotation 180 degrees about the origin/clockwise/ counter-clockwise and translation 2 units right • Reflection over the x-axis and translation 2 units right 	8.G.A.2
22	<p>Describe a sequence to map Triangle A to Triangle B.</p> 	<p>Any of the following answers is correct:</p> <ul style="list-style-type: none"> • Rotation 90 degrees clockwise about $(-1, 2)$ and translation 1 unit up and 2 units right • Rotation 270 degrees about $(-1, 2)$ counterclockwise and translation 1 unit up and 2 units right • Rotation 90 degrees clockwise about the origin and translation 2 units up and 1 unit left 	8.G.A.2

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