

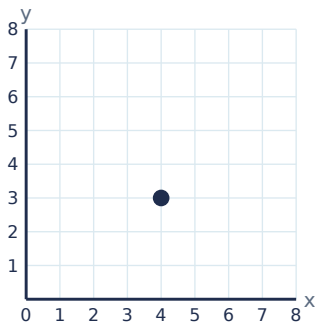
All Translation and reflection

Name _____

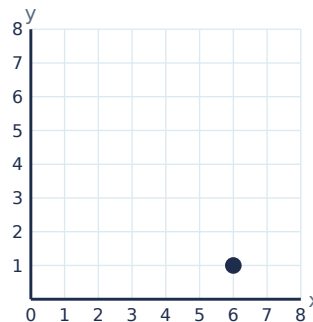
Page 1 of 2

Translate a point on a grid.

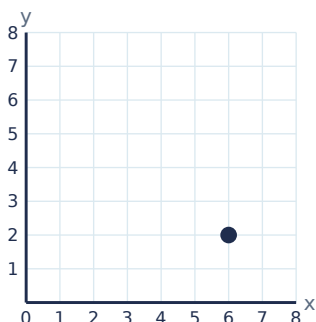
- 1** The point (4, 3) is translated 4 left and 1 up. Mark where it lands with a cross.



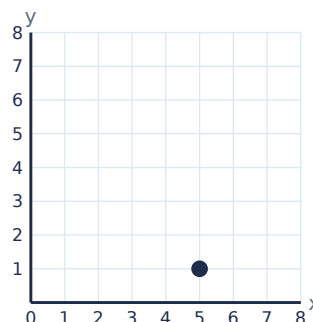
- 2** The point (6, 1) is translated 2 up. Mark where it lands with a cross.



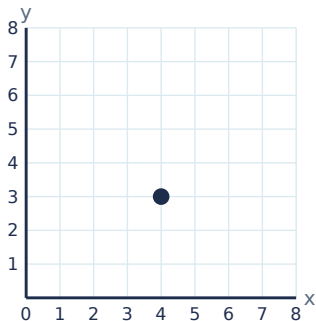
- 3** The point (6, 2) is translated 2 right and 1 down. Mark where it lands with a cross.



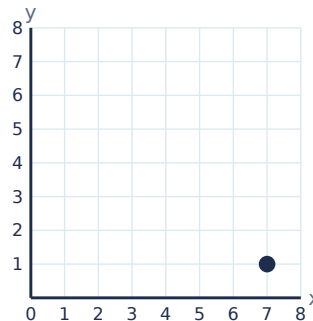
- 4** The point (5, 1) is translated 2 left and 2 up. Mark where it lands with a cross.



- 5** The point (4, 3) is translated 3 right and 1 up. Mark where it lands with a cross.



- 6** The point (7, 1) is translated 1 down. Mark where it lands with a cross.


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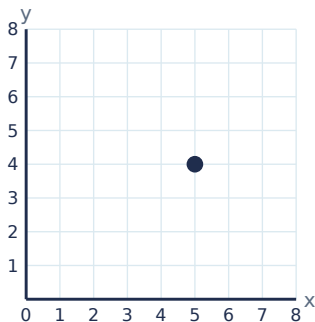
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All Translation and reflection (continued)

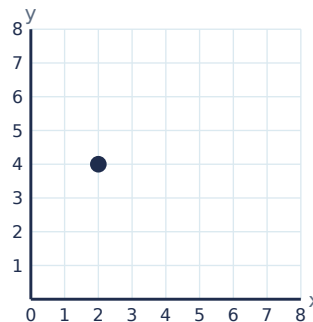
Translate a point on a grid.

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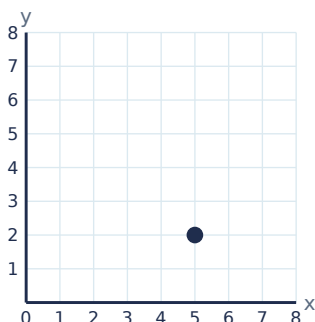
- 7** The point (5, 4) is translated 2 right and 2 up. Mark where it lands with a cross.



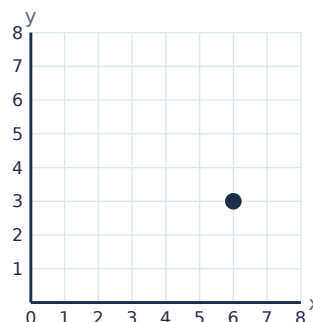
- 8** The point (2, 4) is translated 2 left and 2 up. Mark where it lands with a cross.



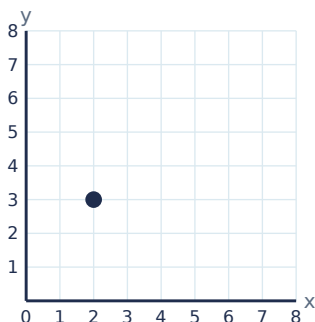
- 9** The point (5, 2) is translated 3 right and 1 down. Mark where it lands with a cross.



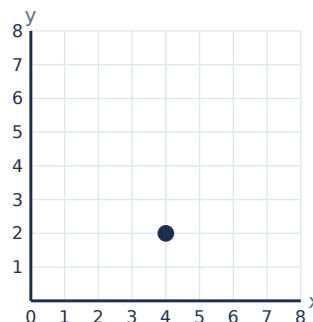
- 10** The point (6, 3) is translated 2 left and 2 up. Mark where it lands with a cross.



- 11** The point (2, 3) is translated 2 right and 4 up. Mark where it lands with a cross.



- 12** The point (4, 2) is translated 2 right and 2 up. Mark where it lands with a cross.



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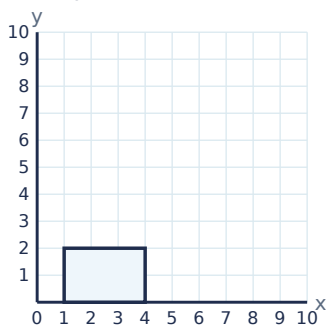
Most Translation and reflection

Name _____

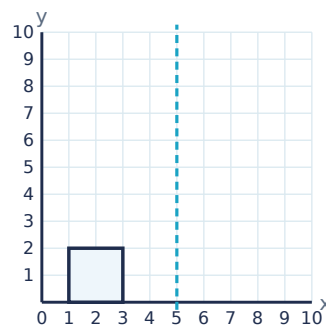
Page 1 of 2

Translate and reflect shapes on a grid.

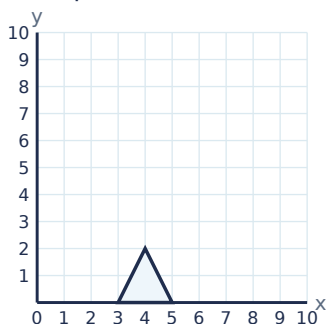
- 1** Translate the shape 4 right and 5 up. Draw the new shape.



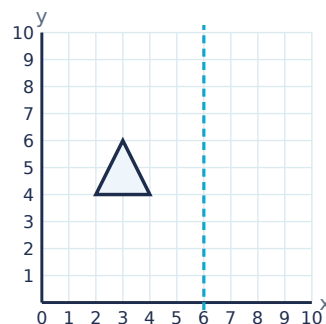
- 2** Reflect the shape in the mirror line $x = 5$. Draw the reflection.



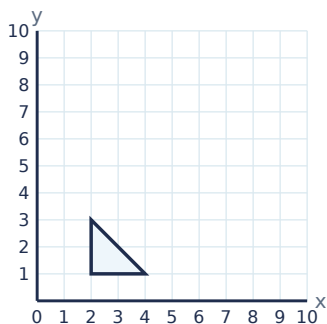
- 3** Translate the shape 5 right and 4 up. Draw the new shape.



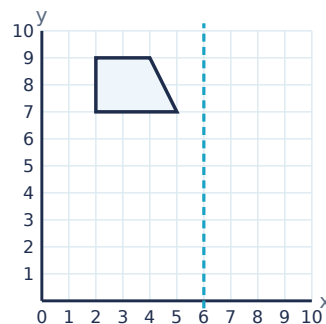
- 4** Reflect the shape in the mirror line $x = 6$. Draw the reflection.



- 5** Translate the shape 3 right and 1 up. Draw the new shape.



- 6** Reflect the shape in the mirror line $x = 6$. Draw the reflection.



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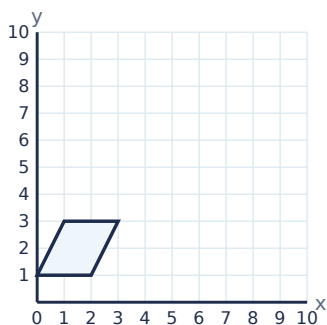
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Most Translation and reflection (continued)

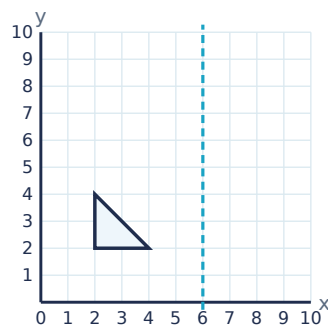
Translate and reflect shapes on a grid.

Page 2 of 2

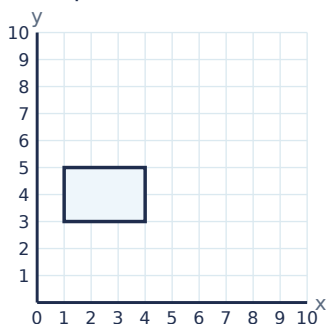
- 7** Translate the shape 4 right. Draw the new shape.



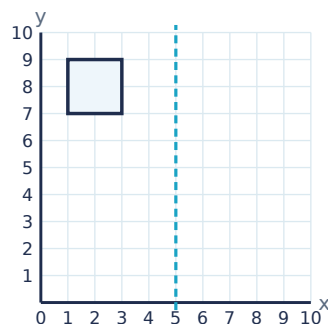
- 8** Reflect the shape in the mirror line $x = 6$. Draw the reflection.



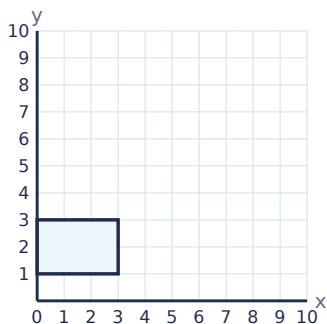
- 9** Translate the shape 4 right and 1 up. Draw the new shape.



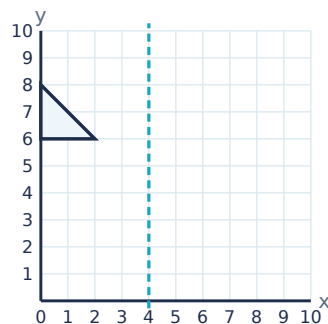
- 10** Reflect the shape in the mirror line $x = 5$. Draw the reflection.



- 11** Translate the shape 3 right and 6 up. Draw the new shape.



- 12** Reflect the shape in the mirror line $x = 4$. Draw the reflection.


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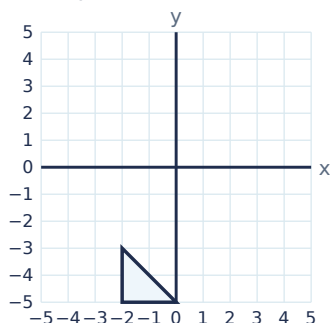
Some Translation and reflection

Name _____

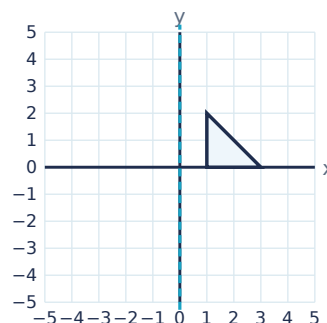
Page 1 of 2

Translate and reflect shapes in all four quadrants.

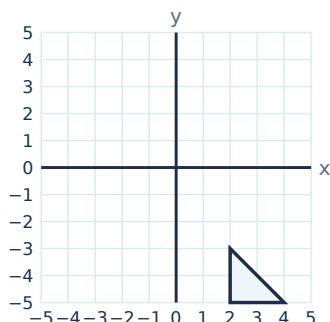
- 1** Translate the shape 2 right and 3 up. Draw the new shape.



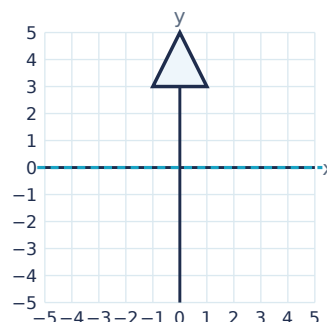
- 2** Reflect the shape in the y-axis. Draw the reflection.



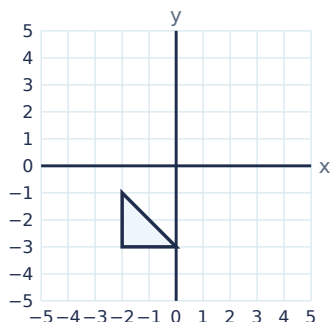
- 3** Translate the shape 6 left. Draw the new shape.



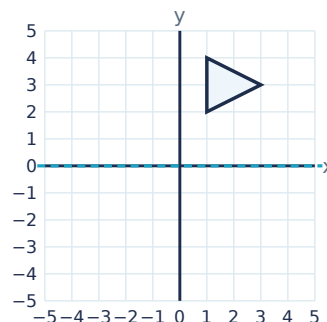
- 4** Reflect the shape in the x-axis. Draw the reflection.



- 5** Translate the shape 3 right and 1 down. Draw the new shape.



- 6** Reflect the shape in the x-axis. Draw the reflection.


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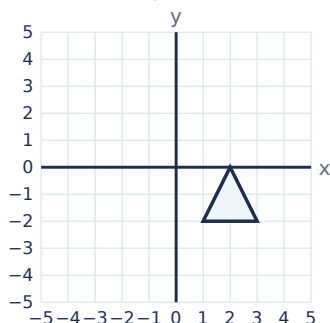
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Some Translation and reflection (continued)

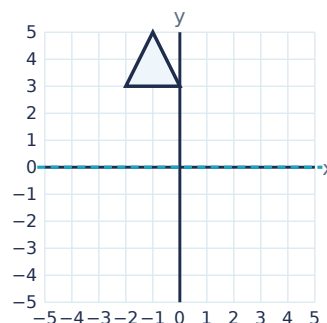
Translate and reflect shapes in all four quadrants.

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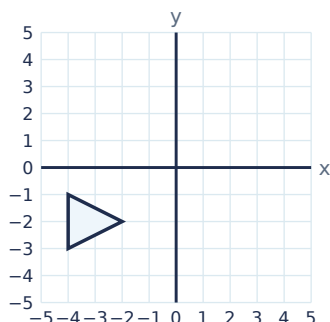
- 7** Translate the shape 1 right and 3 down. Draw the new shape.



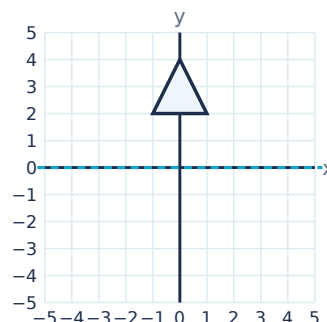
- 8** Reflect the shape in the x-axis. Draw the reflection.



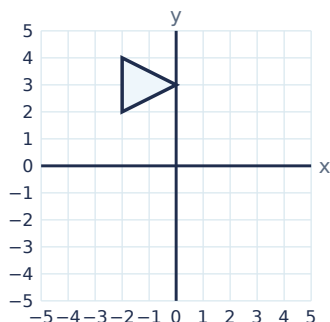
- 9** Translate the shape 2 right. Draw the new shape.



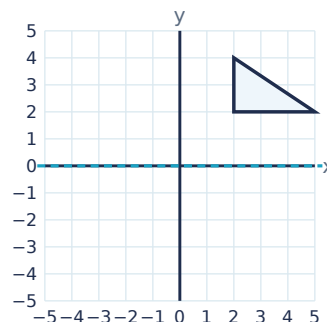
- 10** Reflect the shape in the x-axis. Draw the reflection.



- 11** Translate the shape 2 right and 3 down. Draw the new shape.



- 12** Reflect the shape in the x-axis. Draw the reflection.

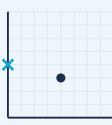
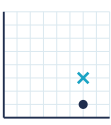
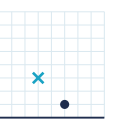
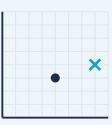
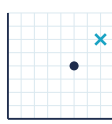
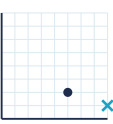
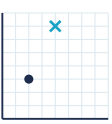
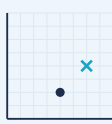


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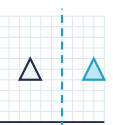
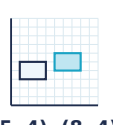
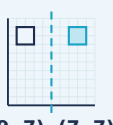
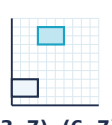
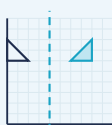
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Translation and reflection: answers

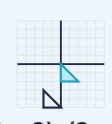
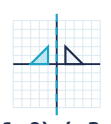
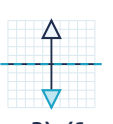
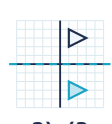
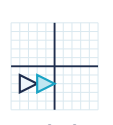
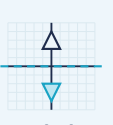
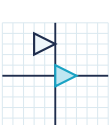
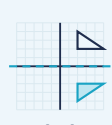
All Translate a point on a grid.

1  $(0, 4)$	2  $(6, 3)$	3  $(8, 1)$	4  $(3, 3)$	5  $(7, 4)$	6  $(7, 0)$
7  $(7, 6)$	8  $(0, 6)$	9  $(8, 1)$	10  $(4, 5)$	11  $(4, 7)$	12  $(6, 4)$

Most Translate and reflect shapes on a grid.

1  $(5, 5), (8, 5)$ $(8, 7), (5, 7)$	2  $(9, 0), (7, 0)$ $(7, 2), (9, 2)$	3  $(8, 4), (10, 4), (9, 6)$	4  $(10, 4), (8, 4), (9, 6)$	5  $(5, 2), (7, 2), (5, 4)$	6  $(10, 7), (7, 7)$ $(8, 9), (10, 9)$
7  $(4, 1), (6, 1)$ $(7, 3), (5, 3)$	8  $(10, 2), (8, 2), (10, 4)$	9  $(5, 4), (8, 4)$ $(8, 6), (5, 6)$	10  $(9, 7), (7, 7)$ $(7, 9), (9, 9)$	11  $(3, 7), (6, 7)$ $(6, 9), (3, 9)$	12  $(8, 6), (6, 6), (8, 8)$

Some Translate and reflect shapes in all four quadrants.

1  $(0, -2), (2, -2)$ $(0, 0)$	2  $(-1, 0), (-3, 0)$ $(-1, 2)$	3  $(-4, -5), (-2, -5)$ $(-4, -3)$	4  $(-1, -3), (1, -3)$ $(0, -5)$	5  $(1, -4), (3, -4)$ $(1, -2)$	6  $(1, -2), (3, -2)$ $(1, -4)$
7  $(2, -5), (4, -5)$ $(3, -3)$	8  $(-2, -3), (0, -3)$ $(-1, -5)$	9  $(-2, -3), (0, -2)$ $(-2, -1)$	10  $(-1, -2), (1, -2)$ $(0, -4)$	11  $(0, -1), (2, 0), (0, 1)$	12  $(2, -2), (5, -2)$ $(2, -4)$

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