

## Worksheet

Answer the questions on this worksheet in the boxes next to the challenge questions.

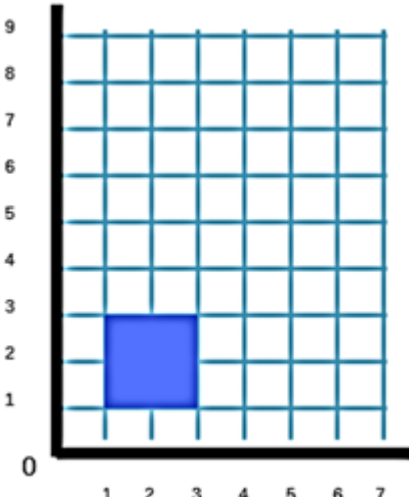
### Remember:

The tasks are arranged in 3 challenges that get progressively more difficult.

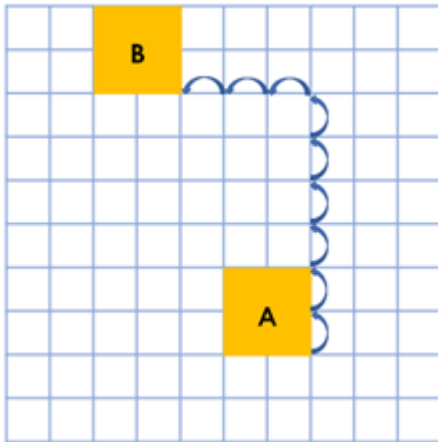
- Challenge 1 is a “mild” challenge, if you are not confident
- Challenge 2 is “spicy”, a little bit more challenging, if you are feeling confident and find the first challenge too easy.
- Challenge 3 is “hot”. The questions are designed to challenge you and can be tricky.

You can choose to do just one challenge or more than one, it is up to you. As a guide, if you are consistently getting everything correct, you should move up a challenge. If you are struggling on every question; move down a challenge.

### Challenge 1:

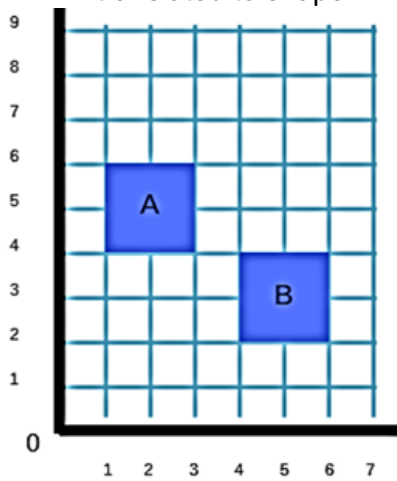
Question	Answer
<p>1. Translate the shape 2 squares right and 4 squares up.</p>  <p>Write the new coordinates of the translated shape down if you find it hard to draw on the grid.</p>	

2. Complete the stem sentence:


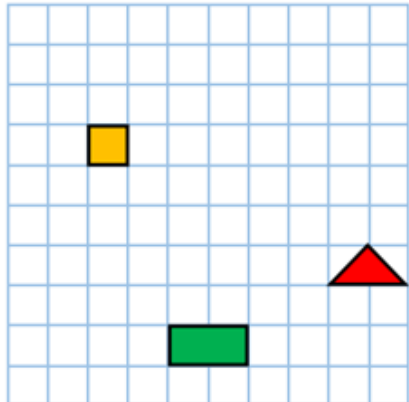



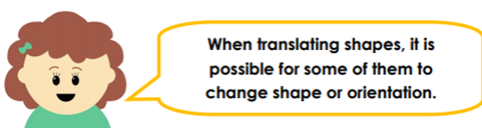


Shape A has been translated \_\_\_ squares \_\_\_  
and \_\_\_ squares \_\_\_\_\_.

3. Describe how shape A has been translated to shape B



**Challenge 2:**

Question	Answer
<p>1.</p> <p>Match the translations.</p> 	
<p>2.</p> <p><b>Translate the shapes!</b></p>  <p>  2 squares right and 3 squares down   3 squares right and 7 squares up   6 squares left and 1 square down </p> <p>Number the squares and write the new coordinates of the translated shape down if you find it hard to draw on the grid.</p>	
<p>3.</p> <p>Darcey says...</p>  <p>When translating shapes, it is possible for some of them to change shape or orientation.</p> <p>Do you agree? Explain why / why not.</p>	

**Challenge 3:**

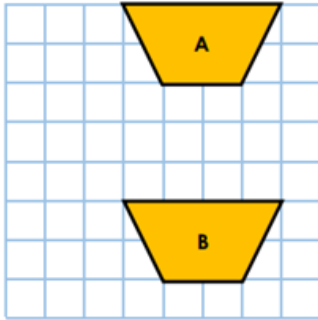
Question	Answer
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1.

Alfie is describing a translation of A to B.



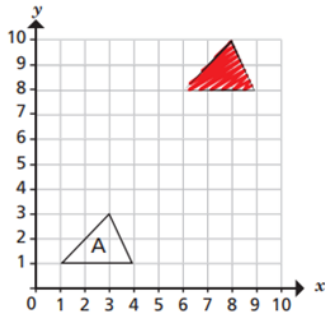
The isosceles trapezium has been translated 0 squares right or left and 5 squares down.



How can you improve Alfie's description?  
Explain your thoughts.

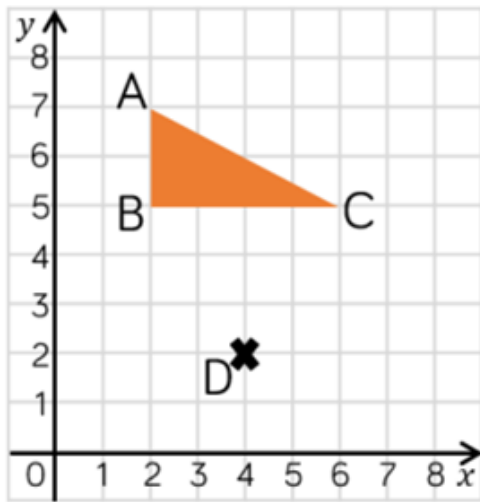
2.

Dora has translated triangle A 2 squares to the right and 7 squares up.

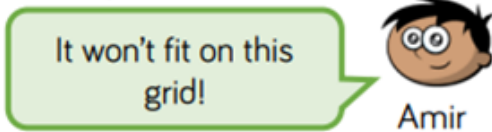


Is Dora's drawing correct? \_\_\_\_\_  
Explain why.

3.



Triangle ABC is translated so that point B translates to point D



Do you agree with Amir?  
Explain your thinking.