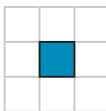
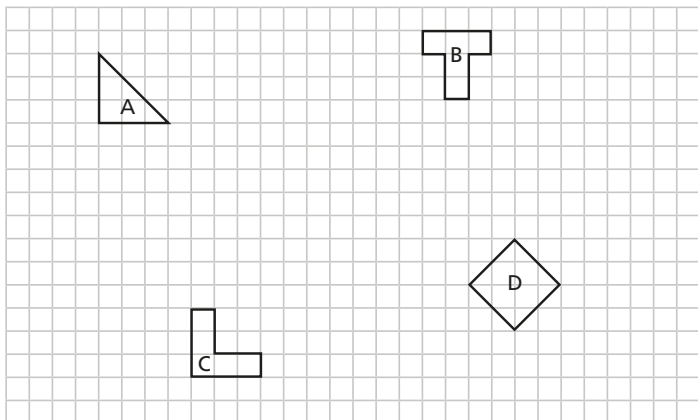


1 Draw a square on squared paper.

- Translate the shape 4 squares to the right.
- Translate the shape 2 squares up.
- Translate the shape 4 squares right, 2 squares up.
- Translate the shape 3 squares left, 5 squares down.



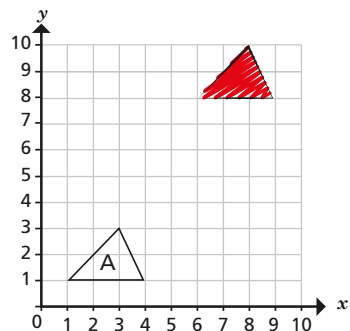
2 Four shapes have been drawn on a grid.



- Translate shape A 5 squares to the right and 3 squares down.
- Translate shape B 4 squares to the left and 7 squares down.
- Translate shape C 6 squares to the left.
- Translate shape D 4 squares to the right and 8 squares up.



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

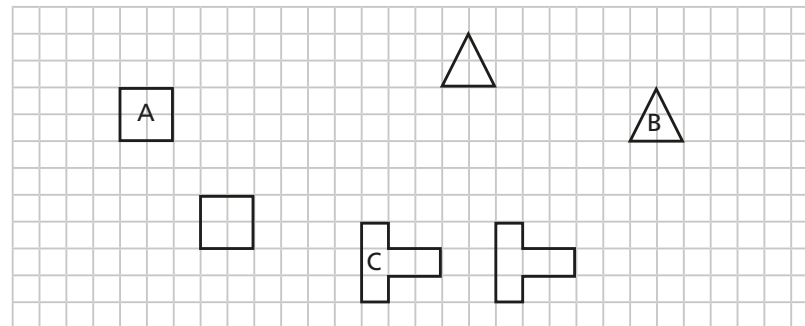


Is Dora's drawing correct?  
Explain why.

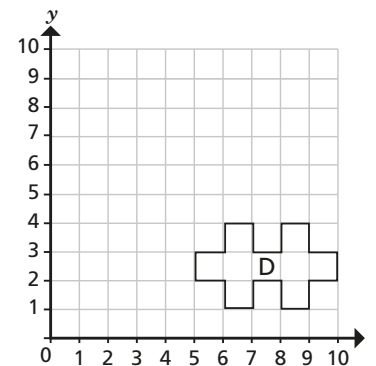


4 Shapes A, B and C have been translated.

Describe the translations.



5 A shape has been drawn on a coordinate grid.

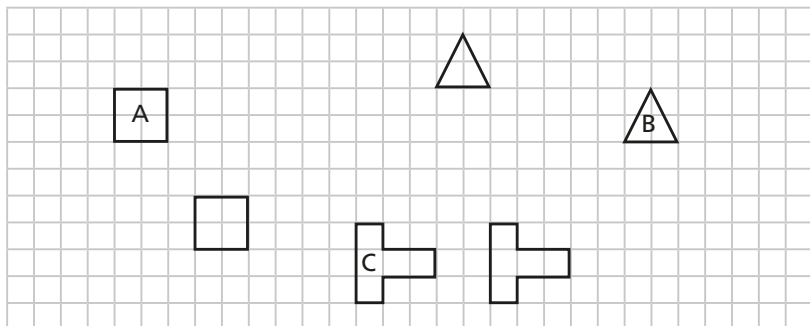


- Translate shape D 4 squares to the left and 6 squares up. Label the new shape E.
- Describe the translation from shape E to shape D.

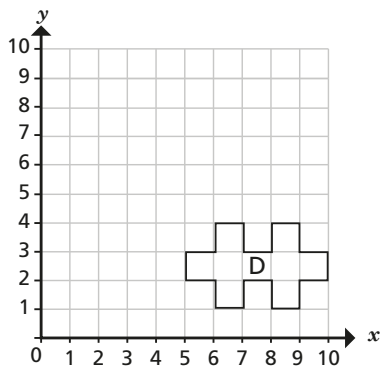
What do you notice? Does this always happen?



- 4 Shapes A, B and C have been translated.  
Describe the translations.



- 5 A shape has been drawn on a coordinate grid.

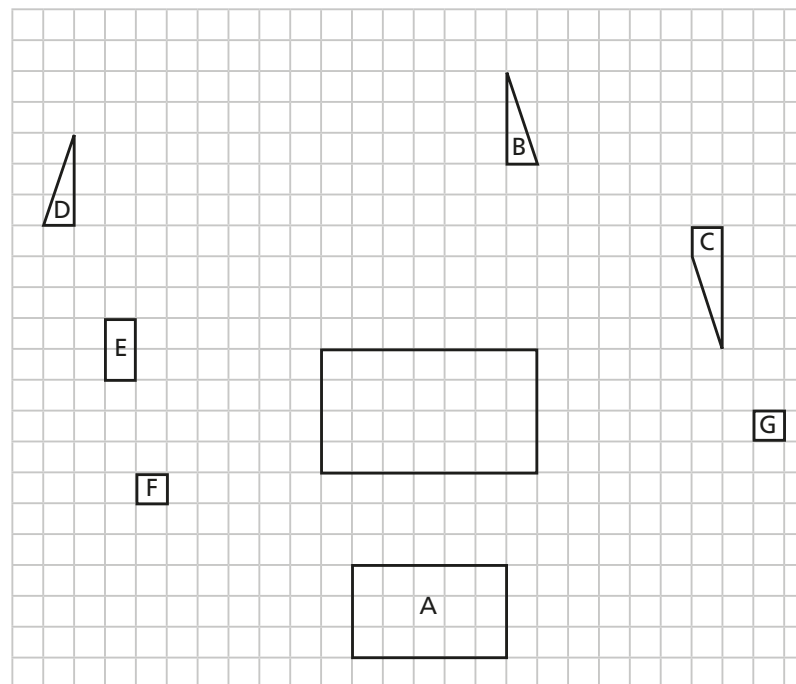


- Translate shape D 4 squares to the left and 6 squares up. Label the new shape E.
- Describe the translation from shape E to shape D.

What do you notice? Does this always happen?



- 6 Eight polygons are drawn on the grid.



- Translate shape A 10 squares up.
- Translate shape B 6 squares down.
- Translate shape C 6 squares left.
- Translate shape D 9 squares to the right and 4 squares down.
- Translate shape E 10 squares to the right and 3 squares down.
- Translate shape F 7 squares to the right and 3 squares up.
- Translate shape G 9 squares to the left and 1 square up.

Create your own problem like this for a partner.

