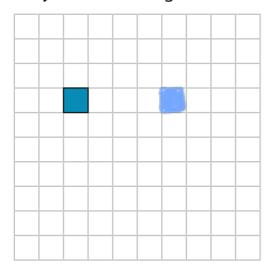
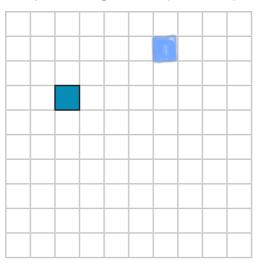
## **Translation**



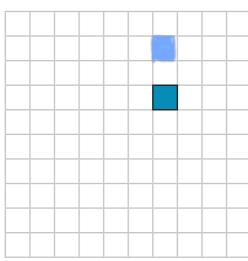
- 1 Complete the translations.
  - a) Translate the shape4 squares to the right.



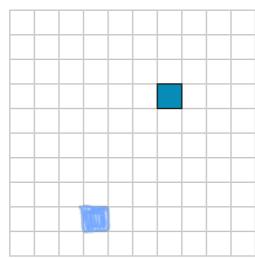
c) Translate the shape4 squares right, 2 squares up.



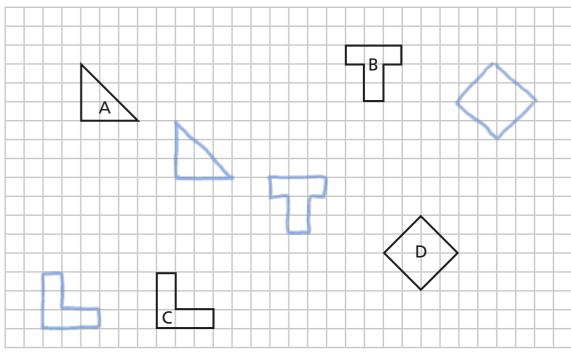
b) Translate the shape2 squares up.



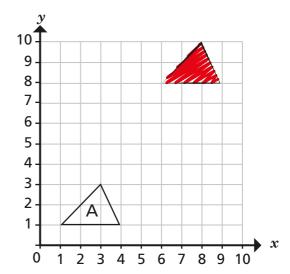
**d)** Translate the shape 3 squares left, 5 squares down.



Four shapes have been drawn on a grid.



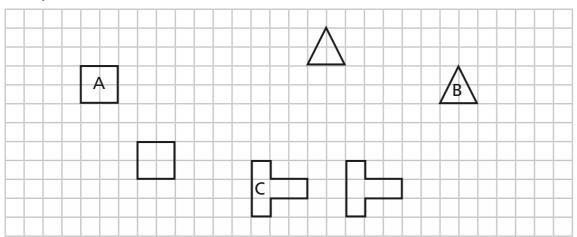
- a) Translate shape A 5 squares to the right and 3 squares down.
- **b)** Translate shape B 4 squares to the left and 7 squares down.
- c) Translate shape C 6 squares to the left.
- d) Translate shape D 4 squares to the right and 8 squares up.
- Dora has translated triangle A 2 squares to the right and 7 squares up.



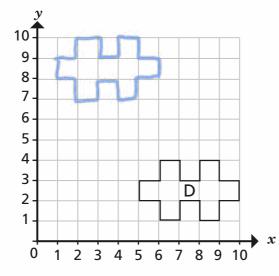




4 Complete the sentences to describe the translations.



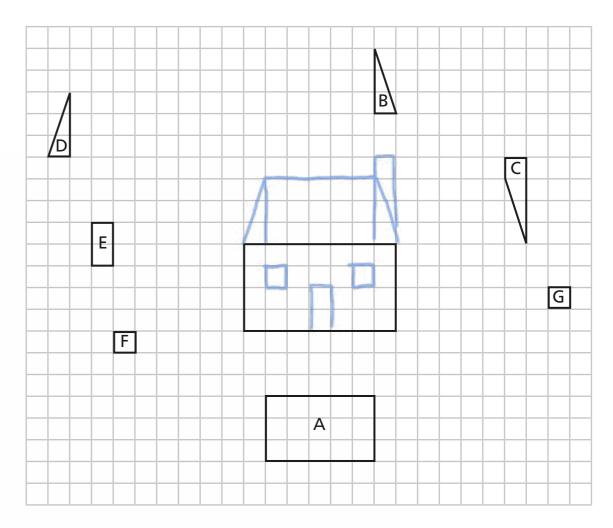
- a) Shape A has been translated 3 squares to the right and squares down.
- b) Shape B has been translated squares to the squares \_\_\_\_\_
- A shape has been drawn on a coordinate grid.
  - a) Translate shape D 4 squares to the left and 6 squares up.
    Label the new shape E.



**b)** Describe the translation from shape E to shape D.







- a) Translate shape A 10 squares up.
- b) Translate shape B 6 squares down.
- c) Translate shape C 6 squares left.
- d) Translate shape D 9 squares to the right and 4 squares down.
- e) Translate shape E 10 squares to the right and 3 squares down.
- f) Translate shape F 7 squares to the right and 3 squares up.
- g) Translate shape G 9 squares to the left and 1 square up.

Create your own problem like this for a partner.

