

Translation – sliding shapes on squared paper

WHAT THIS LESSON TEACHES

A translation slides a shape to a new place without turning it or flipping it. Every corner moves the same distance across and the same distance up, so the copy is the same size and faces the same way.

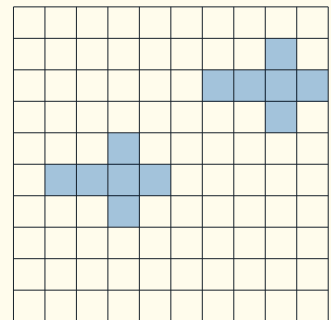
→ An arrow slid 4 squares right stays the same size and faces the same way.

→ If one corner goes 3 right and 2 up, every corner goes 3 right and 2 up.

MODEL THIS ON THE BOARD

SLIDE AN ARROW 5 RIGHT AND 3 UP

- 1 The arrow on the left is made of shaded squares.
- 2 Slide every square of it 5 right and 3 up.
- 3 The new arrow on the right is the same size and still points the same way.



DISCUSSION STARTER

REFLECT How can you tell a slide from a flip or a turn?

ANSWER KEY

Scaffold: visual check on the page

Q1: arrow 4 right (same orientation)

Q2: Arrow 6 left & 7 down (same way)

a) Always — A translation only moves a shape, so its size never changes.

b) Always — Sliding never turns a shape, so its direction stays the same.

c) Always — That equal move for every corner is exactly what a translation is.

d) Sometimes — A slide can go right, but it can also go left, up or down.

EXTENSION SHEET · STRETCH ANSWERS

S1: (1, 10)

S2: (4, 4)

S3: (2, 0)

S4: (7, 3)

S5: (0, 4)