Transformations: flowchart

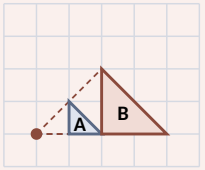
Planner week 14 · Which transformation? Follow the arrows to find out

Describe the transformation

Has it changed size?
bigger or smaller

Yes → **Enlargement**

Say: scale factor + centre
"Enlargement, scale factor 2, centre (1, 1)"

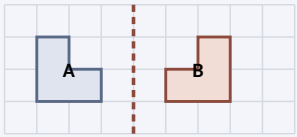


No

Is it a mirror image?
flipped over

Yes → **Reflection**

Say: the mirror line
"Reflection in the line x = 4"

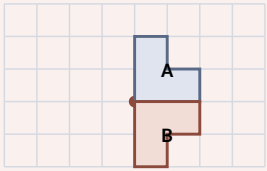


No

Has it turned?
a different way round

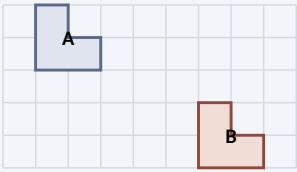
Yes → **Rotation**

Say: angle + direction + centre
"Rotation 90° clockwise about (4, 2)"



No → **Translation**

Say: the column vector
"Translation by the vector $\begin{pmatrix} 5 \\ -3 \end{pmatrix}$*"*



The big question

What has changed: its **size**, is it **flipped**, **turned**, or has it just **slid**?

"Describe fully"

Name it, then give **every** detail in the box.
Only **one** transformation.

Watch out

- x = … lines go up and down; y = … lines go across.
- Rotation needs all three: angle, direction and centre.
- Vectors are not coordinates: top is across, bottom is up or down.
- Enlargement: multiply lengths, don't add.