## Combining Translations and Reflections Worksheet

## Try this

- Describe the translations from:

- Find the missing co-ordinates of each rectangle.



## Connect

Describe the transformation, or combination of transformations, between each pair of triangles:


## Connect -> Independent task

A student is exploring the effect of combining a translation and a reflection.

Reflect in the dotted line

Translate by the vector $\binom{-2}{2}$


The order in which I reflect and translate doesn't matter in this case.


## Independent Task

Using the line of symmetry shown, compare the effect of...

- reflecting then translating
- translating then reflecting
... for each of the vectors:




## Independent Task




## Independent Task




## Independent Task




## Explore

A shape undergoes a translation and a reflection.
When do the following combinations have the same effect?

The translation then the reflection
The reflection then the translation

