## Enlargement by a negative scale factor Lesson 4 of 8 <br> Downloadable Resource

Miss Kidd-Rossiter

## Try this

What's the same and what's different?


## Connect



## Independent task



1. Copy down the diagram to the left. Enlarge the shape by:
a. Scale factor -1 from $(6,4)$
b. Scale factor -1 from $(7,4)$
c. Scale factor -1 from $(4,4)$
d. Scale factor -1 from $(4,2)$
e. Scale factor -2 from $(5,3)$

## Independent task

2. Draw a set of axes like the ones below. Copy $A$ and $P$.

Enlarge A with centre P and:
a. Scale factor -2
b. Scale factor - 7.5
c. Scale factor -0.5


## Explore

Zaki is going to enlarge the shape in the diagram about the marked point

The image will have a greater area and the same orientation as the object

Give an example of a scale factor he could be thinking of.

Can you write a similar statement for each of the following scales factors ranges?

$0<$ Scale factor < 1
Scale factor =-1
-1 < Scale factor > 0

Scale factor > 1
Scale factor <-1


## Explore

Scale factor = 1

The image will have a greater area and the same orientation as the object

O < Scale factor < 1

Scale factor =-1

Scale factor > 1

$$
-1<\text { Scale factor < } 0
$$

Scale factor <-1

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