Enlarge an Object with a Positive Scale Factor from a Given Coordinate

Maths

Miss Davies

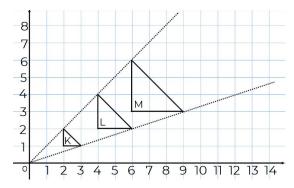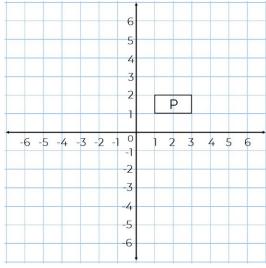# Enlarge an Object with a Positive Scale Factor from a given coordinate

1. M is an enlargement of K by scale factor 3 from centre of enlargement (0,0).

a) Describe the enlargement from K to L

b) K is enlarged by a scale factor of 4 from the same centre to give shape N. Find the coordinates of the vertices of N.
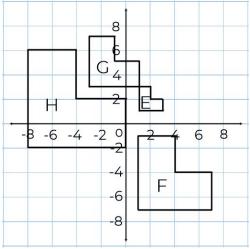
2.

a) Enlarge P by a scale factor 3 from centre (2, 4). Label the new shape Q.
b) Enlarge P by a scale factor 4 from centre (3, 1). Label the new shape R.
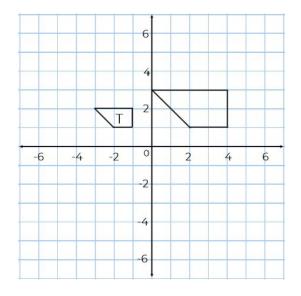
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3.

Describe fully the transformation that maps:
a) E onto F
b) E onto H
c) G onto H

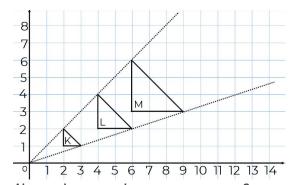4. Alex is enlarging shape T by a scale factor of 2, centre of enlargement (2, 1). What error has Alex made?

Answers

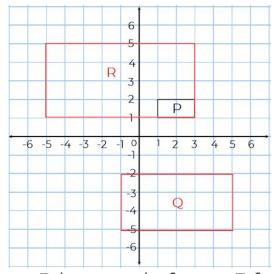# Enlarge an Object with a Positive Scale Factor from a Given Coordinate

1. M is an enlargement of K by scale factor 3 from centre of enlargement (0,0).

a) Describe the enlargement from K to L
Enlargement by SF 2 from COE (0,0).
b) K is enlarged by a scale factor of 4 from the same centre to give shape N. Find the coordinates of the vertices of N.
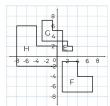(8,8), (8,4), (12,4)

2.

a) Enlarge P by a scale factor 3 from centre (2, 4). Label the new shape Q.
b) Enlarge P by a scale factor 4 from centre (3, 1). Label the new shape R.
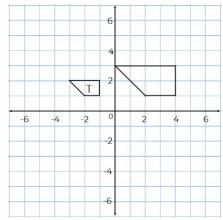
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3.

Describe fully the transformation that maps:

a) E onto F Enlargement by SF 3 from C.O.E (1,5)

b) E onto H Enlargement by SF 4 from C.O.E (4,2)

c) G onto H Enlargement by SF 2 from C.O.E (2,8)

4. Alex is enlarging shape T by a scale factor of 2, centre of enlargement (2, 1). What error has Alex made?

He has used the centre of enlargement as a vertex of the enlarged shape.