1
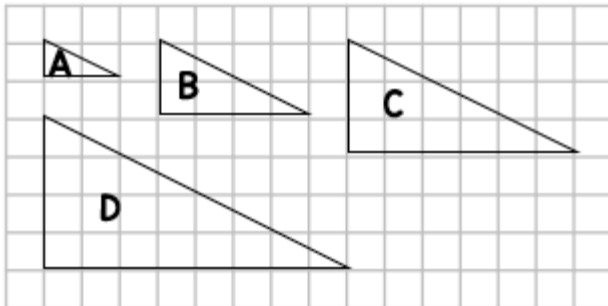

Y is an enlargement of X by a scale factor 2.

Z is an enlargement of X by a scale factor 3. Draw Z on the grid.
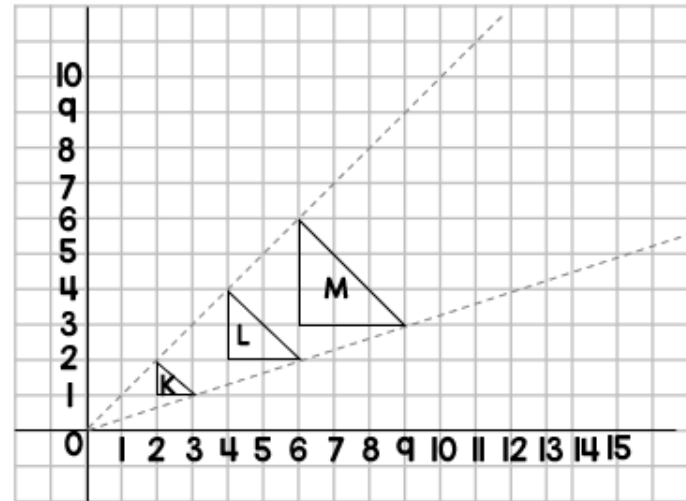
2

Find the scale factor of the enlargement from:

(a) A to B **2**   (b) A to C **3**

(c) A to D **4**   (d) B to D **2**

3

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 scale factor 2 from centre of enlargement (0,0).

(b) N is an enlargement of K by a scale factor 4 from centre of enlargement (0,0), find the coordinates of the vertices of N. **(8,8), (8,4), (12,4)**
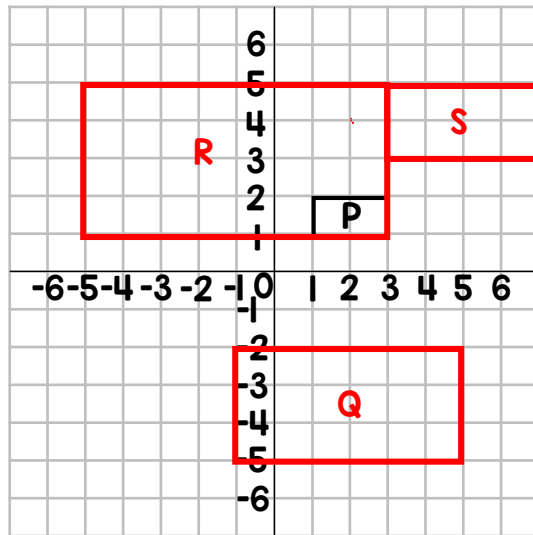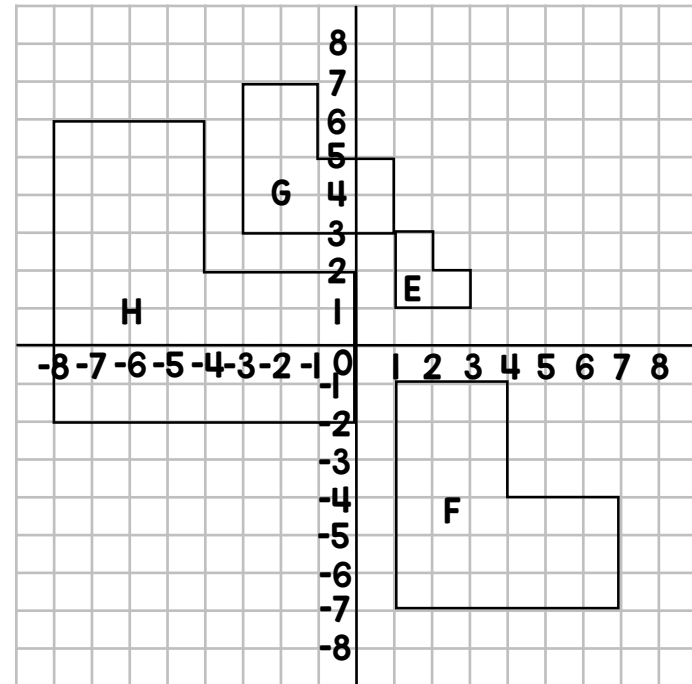
4

(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.

(c) Enlarge P by a scale factor 2 from centre (-1, -1). Label the new shape S.

5

Describe fully the transformation that maps:

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

(b) E onto G Enlargement by SF 2 from C.O.E (5,-1)

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

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

White Rose Maths