

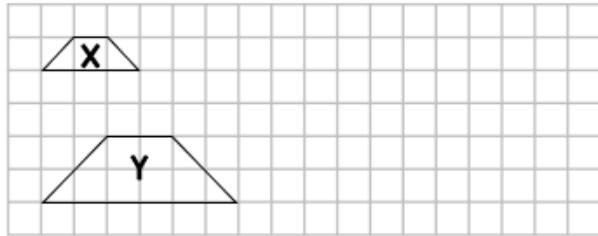
Summer Term Maths Year 10

Enlargement by a positive integer scale factor

Day 3

Week 8

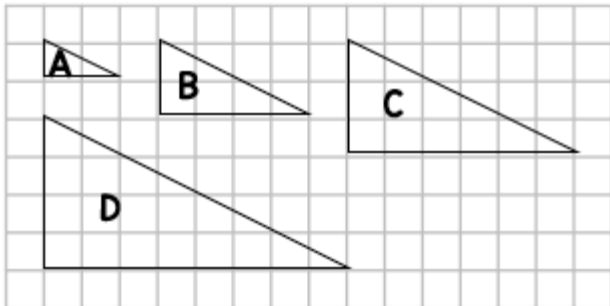
1



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.

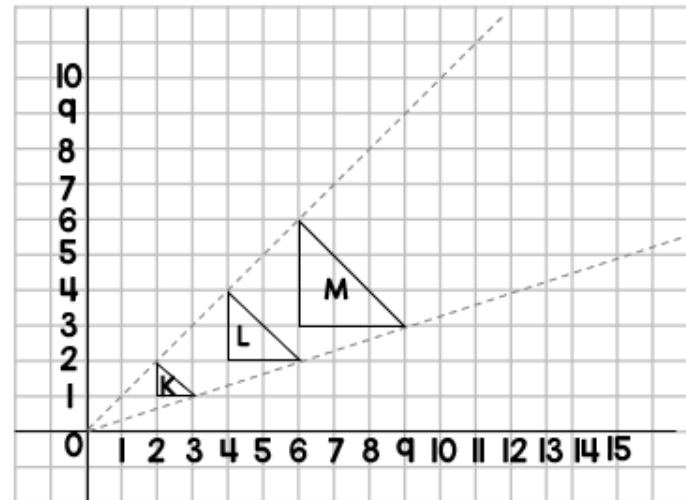
2



Find the scale factor of the enlargement from:

- (a) A to B (b) A to C
(c) A to D (d) B to D

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

(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.

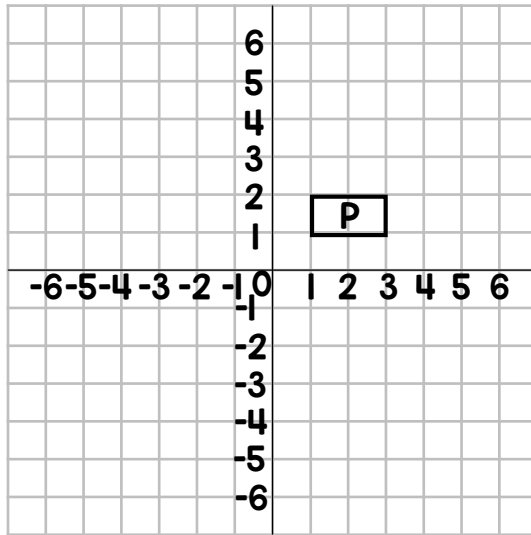
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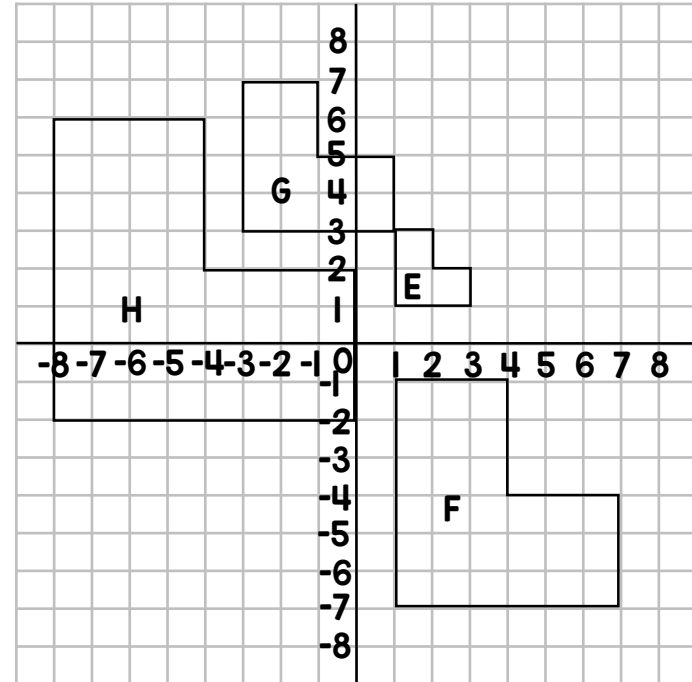
Week 8

4



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

5



Describe fully the transformation that maps:

- E onto F
- E onto G
- E onto H
- G onto H