1. (i) Complete this prime factor tree.
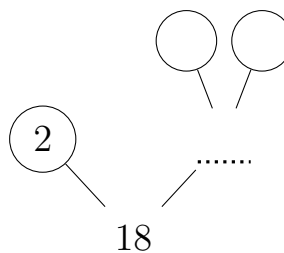
   (ii) Write 18 as a product of its prime factors

   1. . . . .

2. An estate agent rents houses and flats.

   The ratio of the number of houses rented to the number of flats rented is 2 : 3

   The total number houses and flats rented in one month is 55

   Work out the number of houses rented in one month.

   2. . . . .

3. Enya and Blake share some money in the ratio 3 : 4

   Blake gets £84

   Work out how much Enya should have.

   £ . . . .

4. (a) Write 0.00038 in standard form

   (a) . . . .

5.
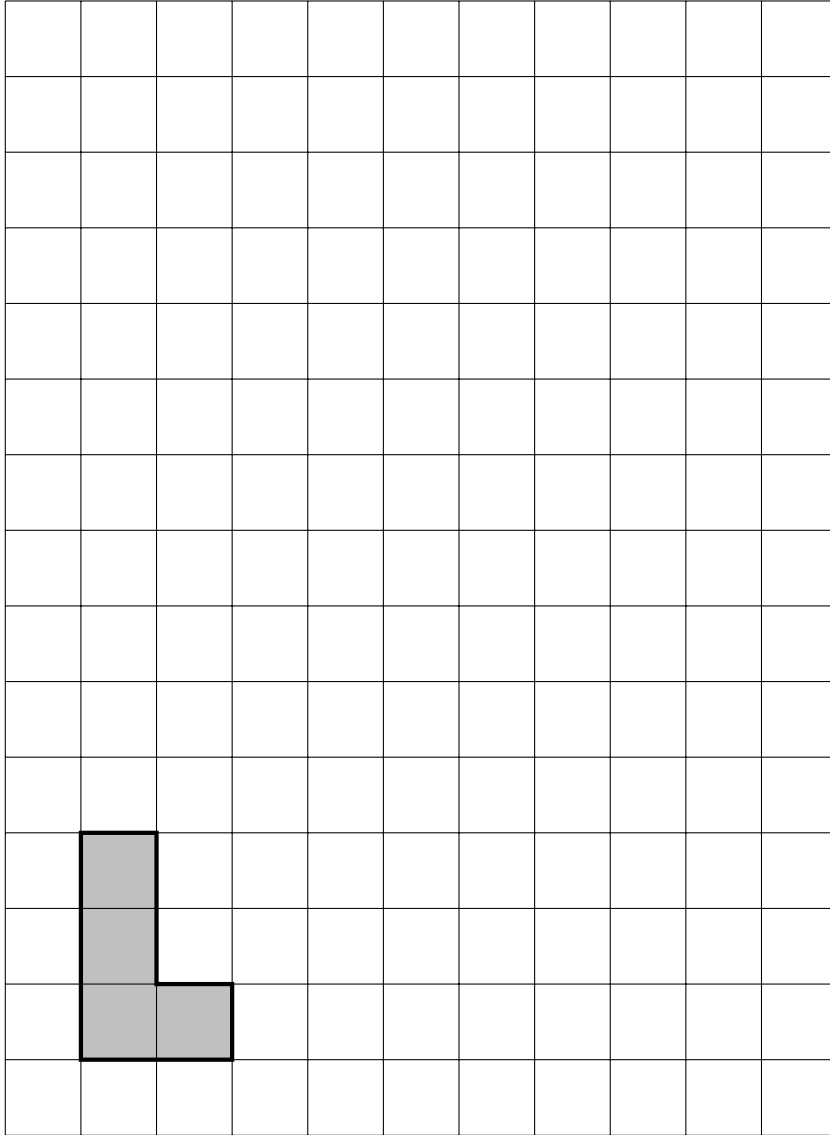
On the grid, draw an enlargement of the shaded shape with a scale factor 3.

6. Write these numbers in order of size.

Start with the smallest number.

$$2.73 \times 10^3 \qquad 27.3 \times 10^{-3} \qquad 273 \times 10^2 \qquad 0.00273$$

6. . . . .

7. (a) Write 0.28×10^{-3} in standard form
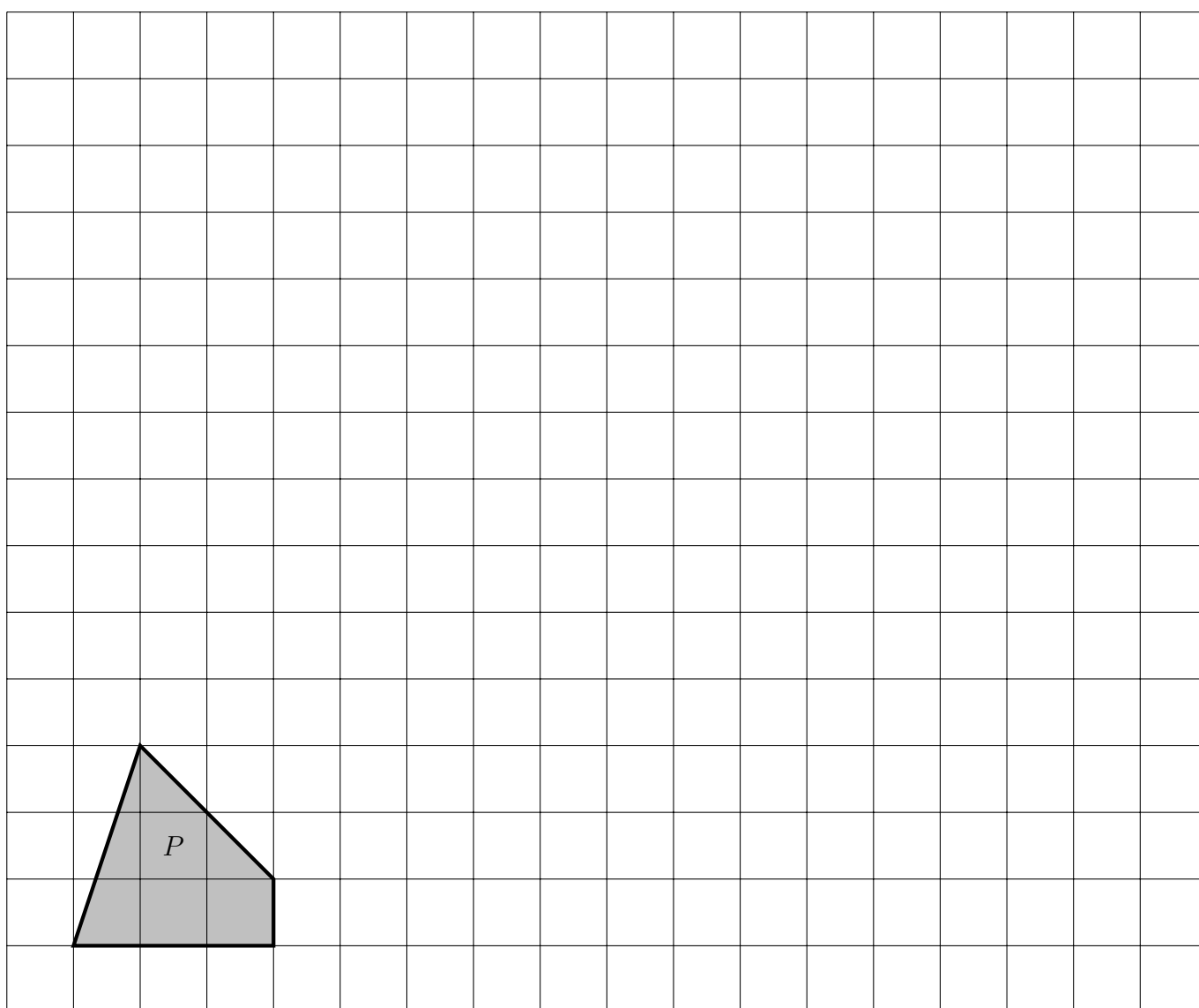
(a) ....

8. (a) Work out the value of $(8 \times 10^2) \times (5 \times 10^{-5})$
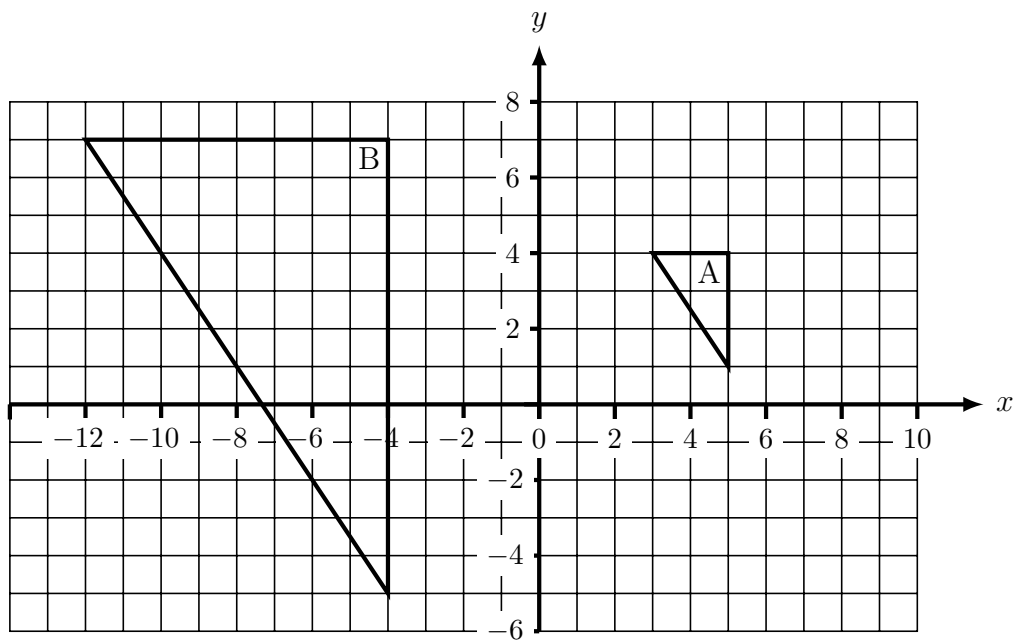
Give your answer in standard form.

(a) ....

9.

Draw an enlargement, scale factor 3, of shape P.

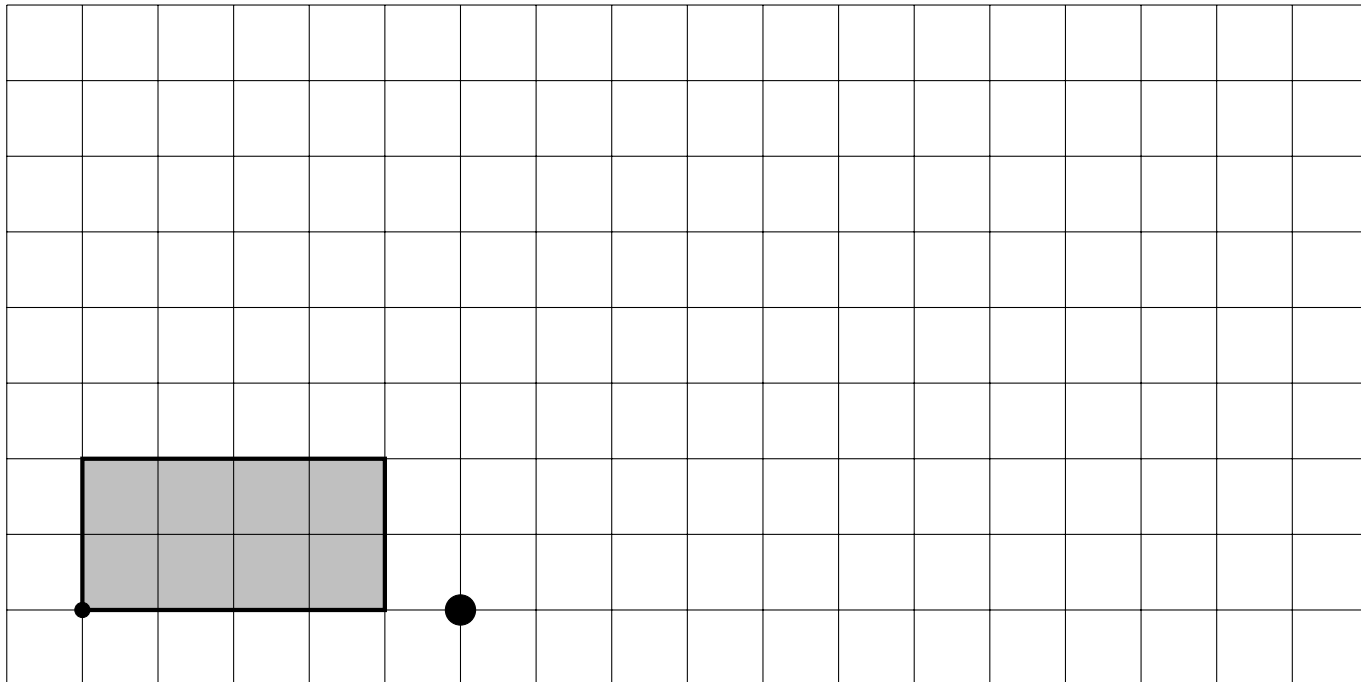10. Describe fully the transformation that maps shape A onto shape B.

....

....

Stuck? try these first

11. Draw an enlargement of the shaded shape with a scale factor of 3

    You may use the formula: edge × scale factor = EDGE

12. (a) Write 6.09×10^5 as an ordinary number

    (a) ....

13. (a) Write 6.73×10^{-3} as an ordinary number

    (a) ....

14. (a) Write $125\,000$ in standard form

    (a) ....