

1. Eva and Freya share £56 in the ratio 4 : 3

Work out how much each person gets

Eva £

Freya £

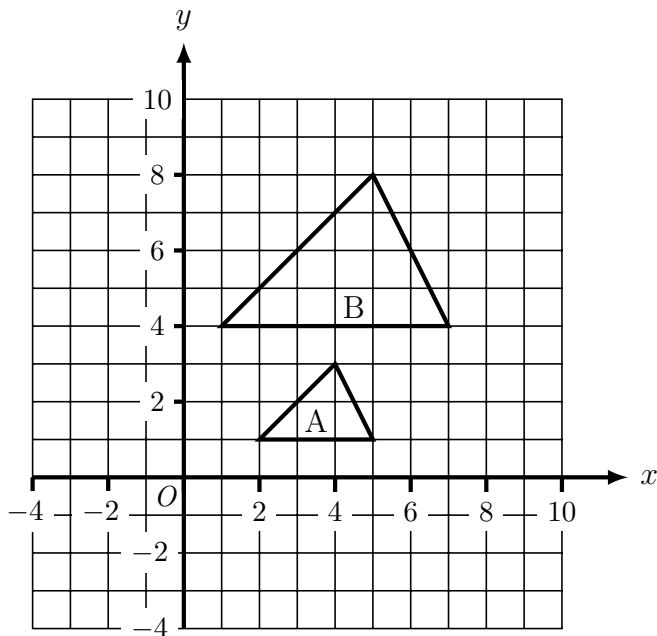
2. Seb and Tia share some money in the ratio 4 : 1

Seb gets £40

Work out how much Tia should have.

£

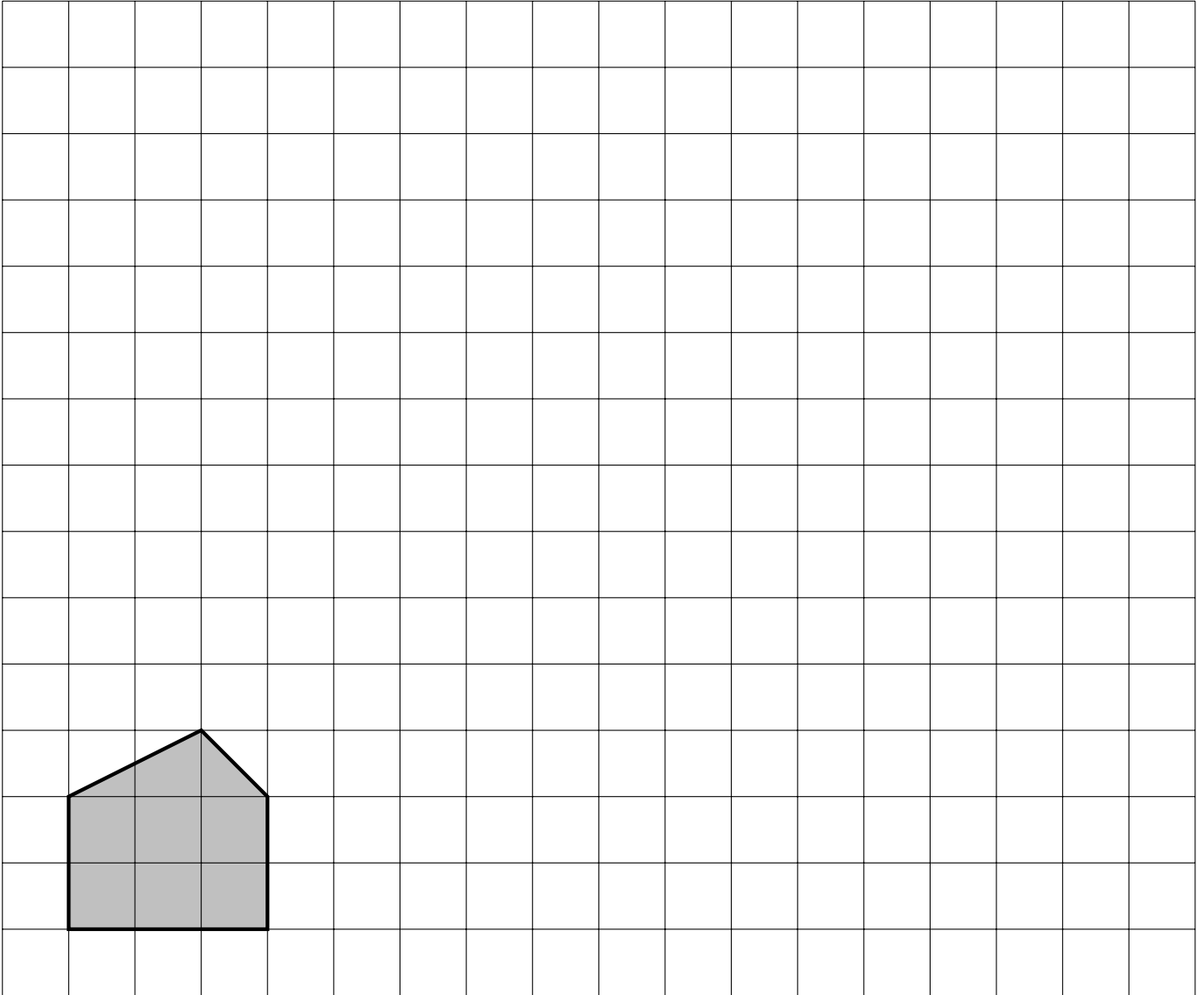
3. Describe fully the transformation that maps shape A onto shape B.



.....

.....

4.



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

5. (a) Write 0.00047 in standard form

(a)

6. Write these numbers in order of size.

Start with the smallest number.

0.034

34×10^1

0.34×10^4

3400×10^{-2}

.....

7. (a) Write 48×10^{-3} in standard form

(a)

8. (a) Calculate $8 \times 10^5 \times 5 \times 10^{-3}$

Give your answer in standard form.

(a)

9. Expand $5(y - 2)$

9.

10. Expand $p(p - 1)$

10.

11. Expand and simplify $(p + 3)(p - 5)$

11.

12. Expand and simplify $(x - 1)(x - 3)$

12.

13. Factorise $2m - 10$

13.

14. Factorise $3y + y^2$

14.

15. Factorise $9x^2 + 6xy$

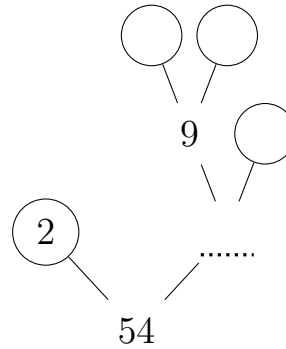
15.

16. Factorise $x^2 - 16$

16.

Stuck? try these first

17. (i) Complete this prime factor tree.

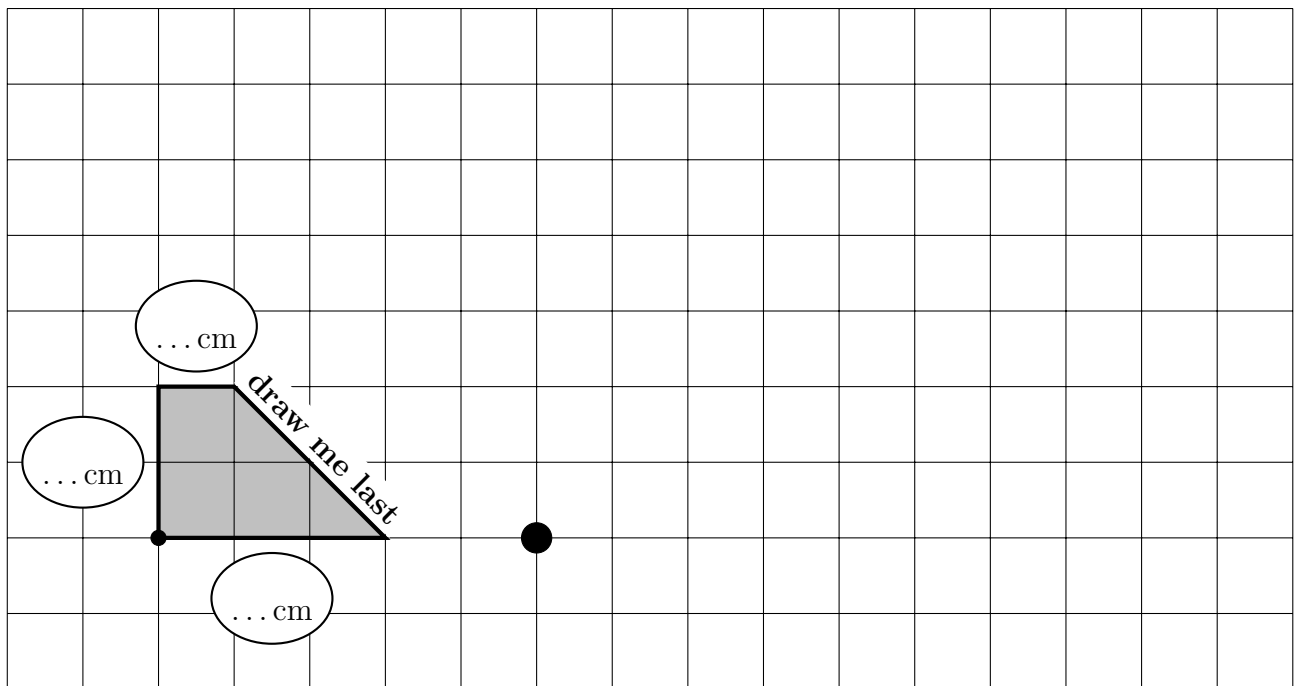


(ii) Write 54 as a product of its prime factors.

17.

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

You may use the formula: $\text{edge} \times \text{scale factor} = \text{EDGE}$



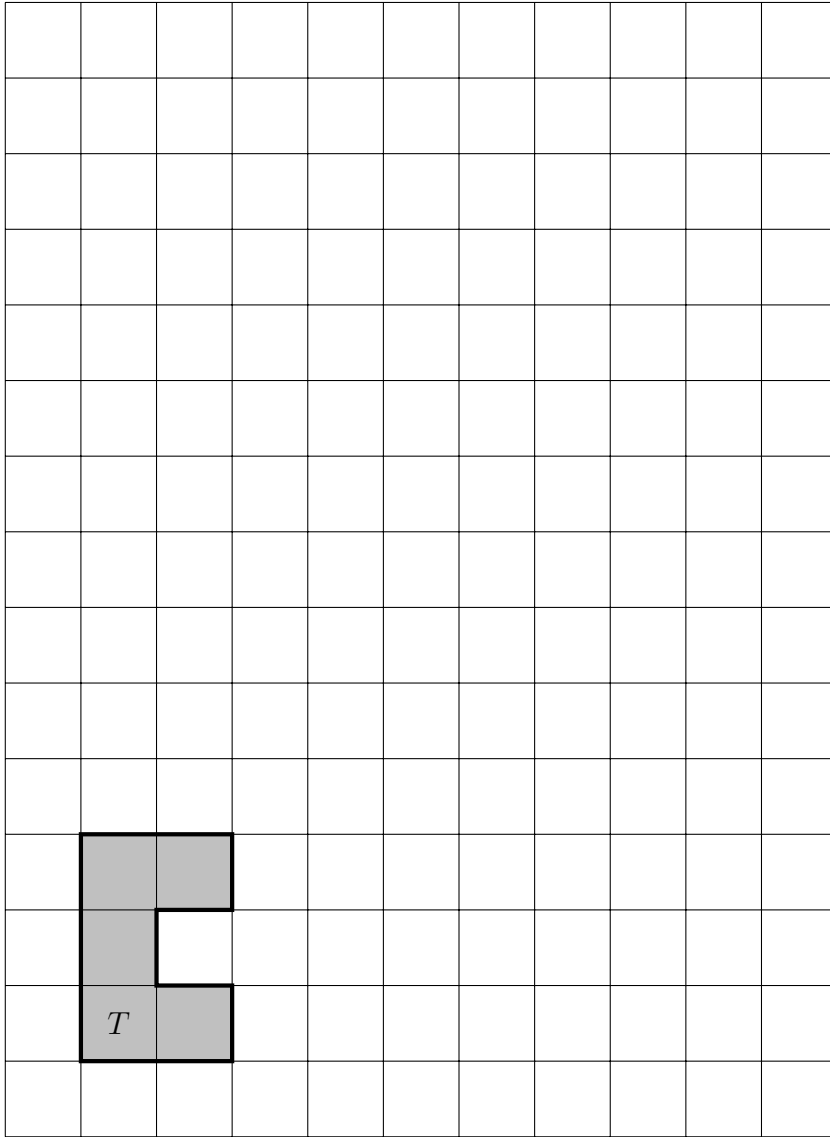
19. (a) Write 2.3×10^5 as an ordinary number

(a)

20. (a) Write 4.7×10^{-4} as an ordinary number

(a)

21.



Draw an enlargement of shape T scale factor 3.

22. (a) Write 3 500 in standard form

(a)

23. (a) Simplify $y + y + y + y$

(a)

24. (a) Simplify $x + 6x + x$

(a)

25. (a) Simplify $-6x + x$

(a)

26. (a) Simplify $3e - 2f + 2e - 3f$

(a)

27. (a) Simplify $2 \times w \times 5$

(a)

28. (a) Simplify $2u \times t$

(a)

29. (a) Simplify $2w \times 5w$

(a)