

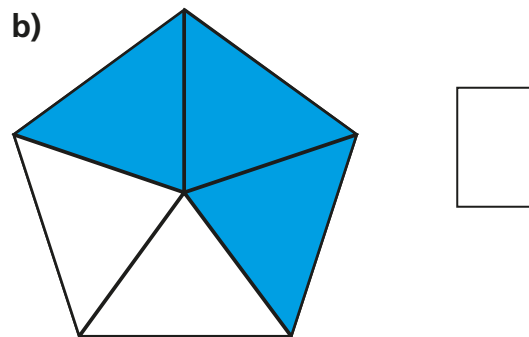
Represent any fraction as a diagram

1 What fraction of the shapes is shaded?

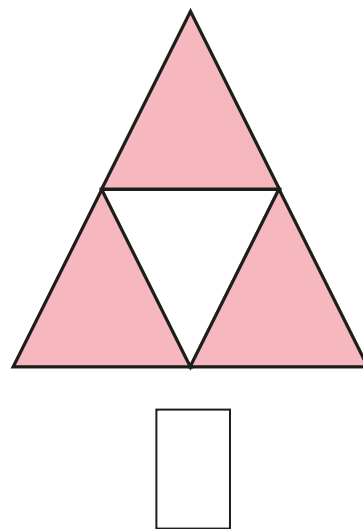
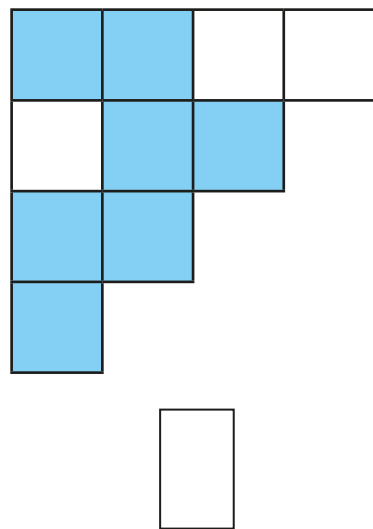
a)



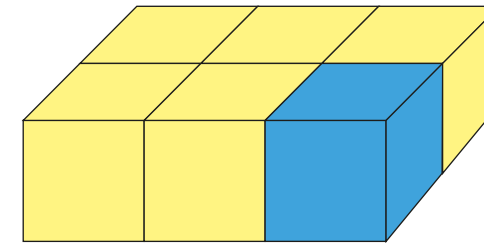
b)



2 What fraction of the shapes are shaded?



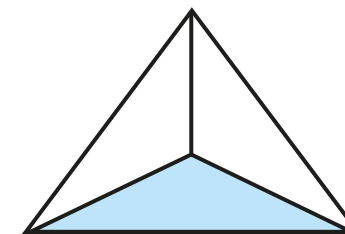
3



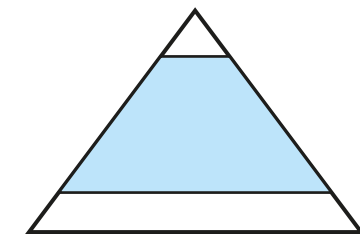
What fraction of the cubes are yellow?

4

One of these triangles has $\frac{1}{3}$ shaded?



A



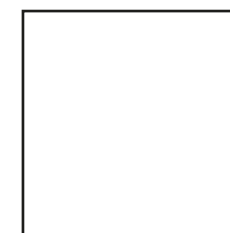
B

a) Which shape has $\frac{1}{3}$ shaded? _____

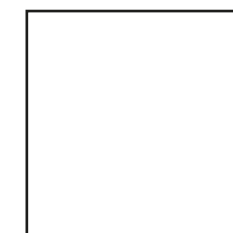
b) Explain why one shape has $\frac{1}{3}$ shaded and the other does not.

5

Shade the stated fractions of the squares.



$\frac{1}{2}$ shaded



$\frac{1}{4}$ shaded

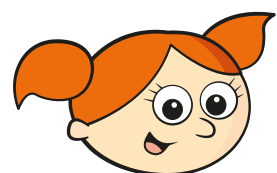


$\frac{1}{8}$ shaded



- 6 Alex and Dexter are dividing rectangles into quarters.

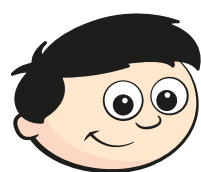
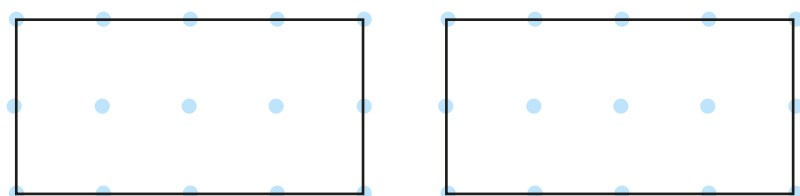
They can only join up dots.



I divided my shape into quarters and I made 4 identical shapes.

- a) How might Alex have divided her shape?

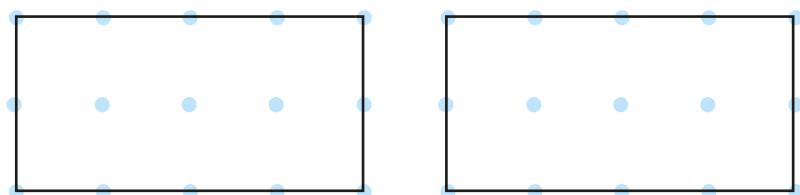
Show two different ways.



All 4 of my shapes are different, but they are still quarters.

- b) How might Dexter have divided his shape?

Show two different ways.

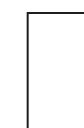
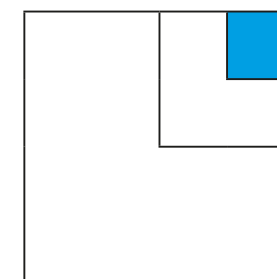
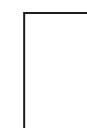
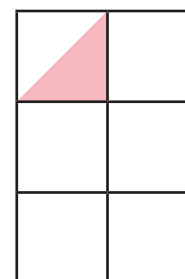


Compare answers with a partner.

Can you find more ways to divide the shapes?



- 7 a) What fraction of the shapes are shaded?

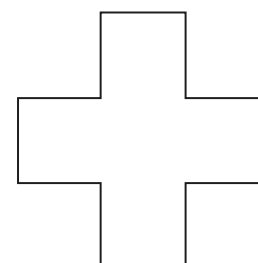


- b) Did you have to make any assumptions?

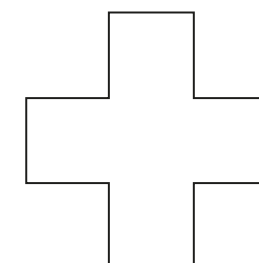
Discuss with a partner.

- 8 All the sides of this shape are the same length.

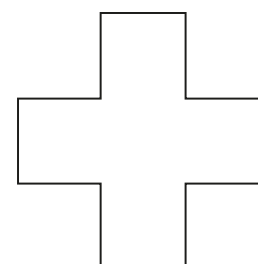
- a) Divide the shape into fifths.



- c) Shade 10% of the shape.



- b) Shade $\frac{3}{4}$ of the shape.



- d) Shade 0.375 of the shape.

