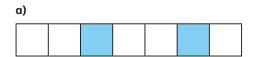
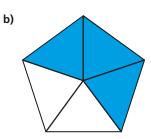
Represent any fraction as a diagram

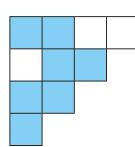


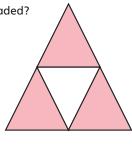
What fraction of the shapes is shaded?



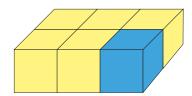


2 What fraction of the shapes are shaded?



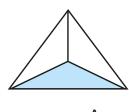


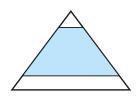
3



What fraction of the cubes are yellow?

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





В

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

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

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.





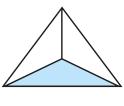
I divided my shape into quarters and I made 4 identical shapes.



Represent any fraction as a diagram







В

Α

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

Shade the stated fractions of the squares.







$$\frac{1}{2}$$
 shaded

 $\frac{1}{4}$ shaded

 $\frac{1}{8}$ shaded

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.

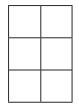


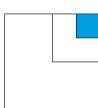
All 4 of my shapes are different, but they are still quarters.

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?



a) What fraction of the shapes are shaded?

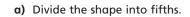




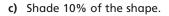
b) Did you have to make any assumptions? Discuss with a partner.



All the sides of this shape are the same length.



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



d) Shade 0.375 of the shape.











