Represent any fraction as a diagram

What fraction of the shapes is shaded?
a)

(2)

What fraction of the shapes are shaded?

$\frac{7}{10}$

$\frac{3}{4}$
(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? A
b) Explain why one shape has $\frac{1}{3}$ shaded and the other does not. One is split into equal parts and one is not
(5)

Shade the stated fractions of the squares. E.g.

$\frac{1}{2}$ shaded

$\frac{1}{4}$ shaded

$\frac{1}{8}$ shadedAlex and Dexter are dividing rectangles into quarters.
7
a) What fraction of the shapes are shaded?

They can only join up dots.

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?

$\frac{1}{12}$
b) Did you have to make any assumptions? Discuss with a partner.

All the sides of this shape are the same length.
a) Divide the shape into fifths.

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

c) Shade $10 \%$ of the shape.


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