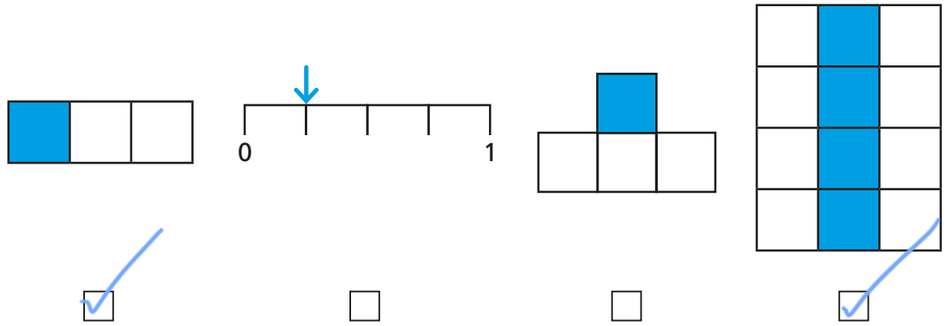
Understand representations of fractions

1 Which diagrams represent one third? Tick your answers.



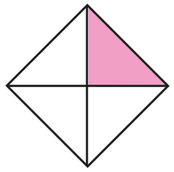
How could the other diagrams be changed so that they represent one third?

2 Write the fractions shown in the representations.

a)

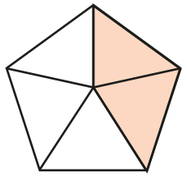
$\frac{1}{5}$

b)



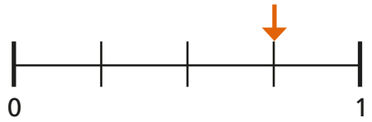
$\frac{1}{4}$

c)



$\frac{2}{5}$

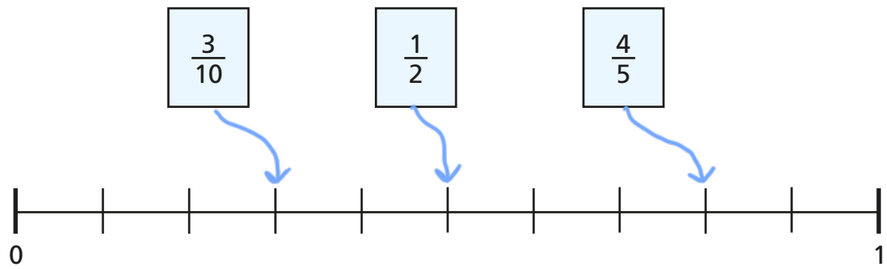
d)



$\frac{3}{4}$

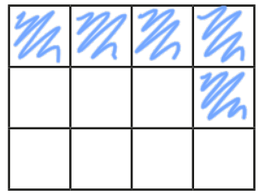
3 Draw an arrow from each fraction to its place on the number line.

$\frac{3}{10}$ $\frac{1}{2}$ $\frac{4}{5}$

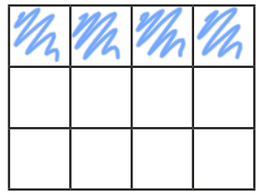


4 Shade the grids to match the given fractions.

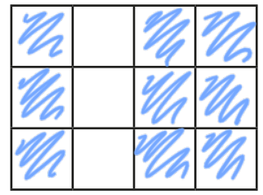
a) $\frac{5}{12}$



b) $\frac{1}{3}$



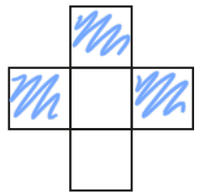
c) $\frac{3}{4}$



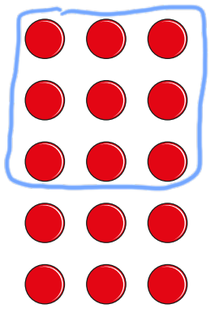
d) $\frac{1}{6}$

5 Represent $\frac{3}{5}$ on each diagram.

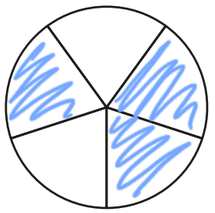
a)



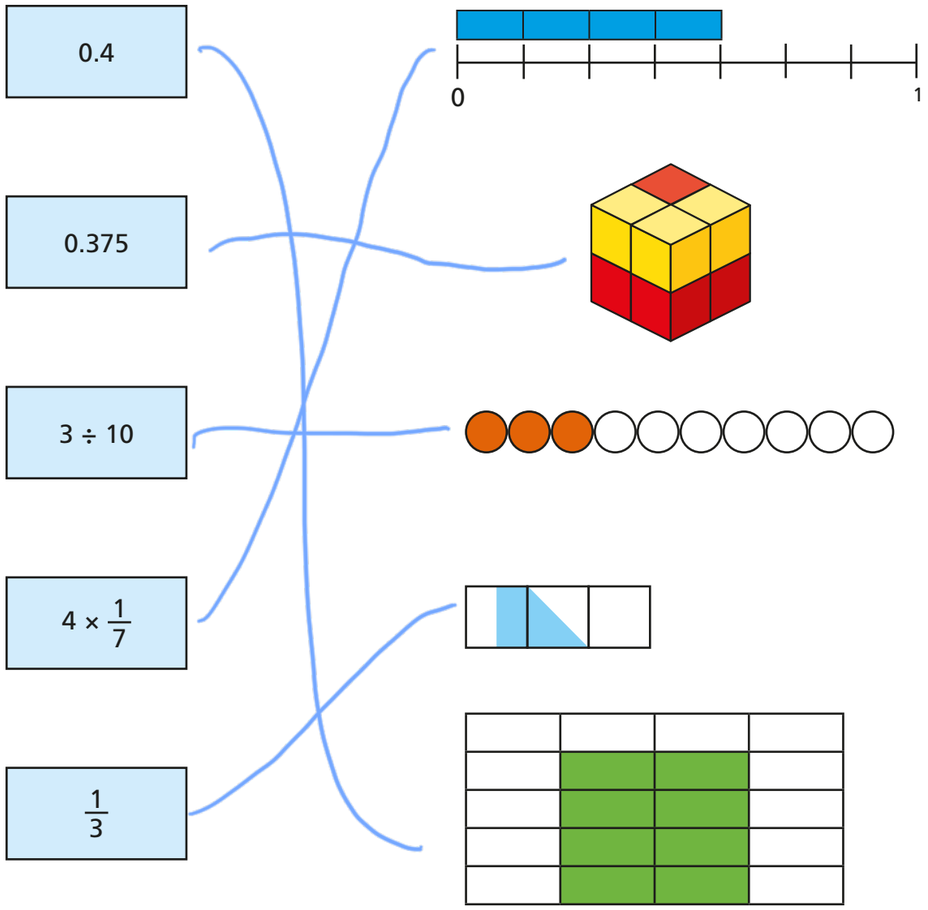
b)



c)

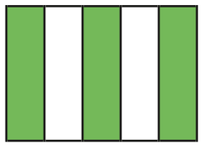


6 Match the numerical expressions to their fractional representation.



7 Tom and Aisha are asked to show $\frac{3}{5}$ on a rectangle.

Tom



Aisha

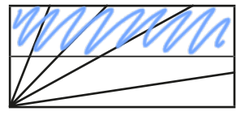
Who has correctly shown $\frac{3}{5}$? Tom

Explain your answer.

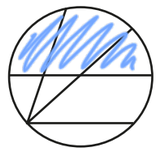
His rectangle is split into 5 equal parts and Aisha's isn't.

8 Shade $\frac{1}{2}$ of each shape.

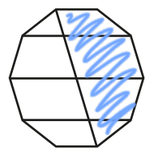
a)



b)



c)



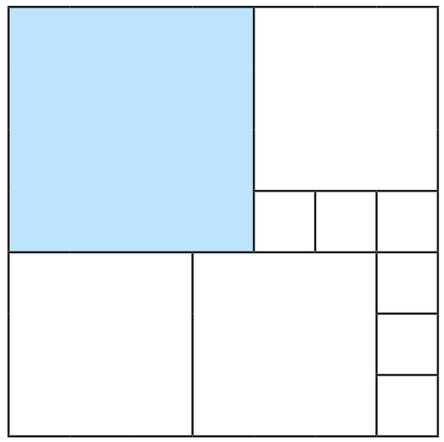
Discuss with a partner how you did it.

9 What fraction of each shape is shaded?

a)

$\frac{1}{14}$

b)



$\frac{16}{49}$