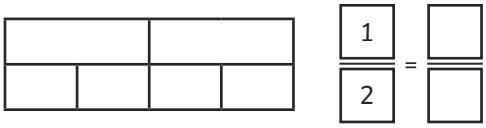
Equivalent Fraction Families

1) Label the fractions shown on each bar model.

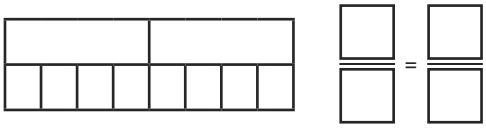
Then, use them to identify the equivalent fractions to one-half.

a) One-half is equal to _____.



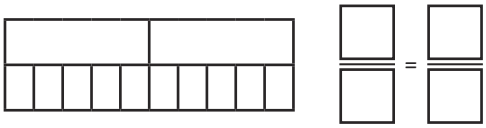
$\frac{1}{2} = \frac{\square}{\square}$

b) One-half is equal to _____.



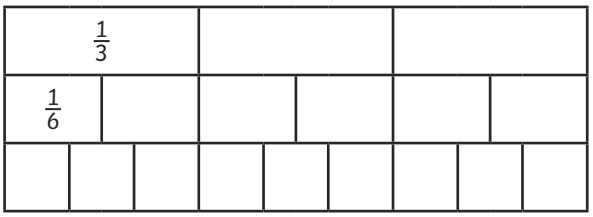
$\frac{\square}{\square} = \frac{\square}{\square}$

c) One-half is equal to _____.



$\frac{\square}{\square} = \frac{\square}{\square}$

2) Label each part and complete the fraction wall.



3)

a) Use the fraction wall above to decide if each equivalent fraction statement is true or false.

A $\frac{1}{3} = \frac{2}{6}$ **B** $\frac{1}{3} = \frac{4}{9}$ **C** $\frac{2}{3} = \frac{4}{6}$

D $\frac{2}{3} = \frac{5}{9}$ **E** $\frac{5}{9} = \frac{3}{6}$ **C** $\frac{6}{9} = \frac{4}{6}$

b) Use the fraction wall above to help you complete these fraction families.

A $\frac{1}{3} = \frac{\square}{6} = \frac{\square}{9}$

B $\frac{2}{3} = \frac{\square}{\square} = \frac{\square}{\square}$

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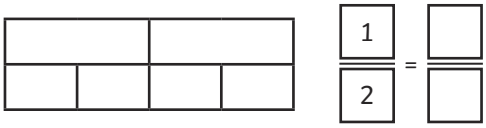

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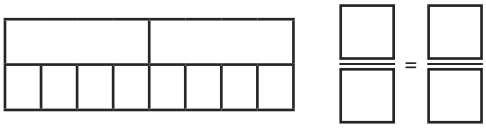

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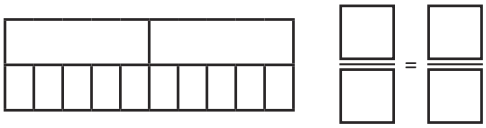

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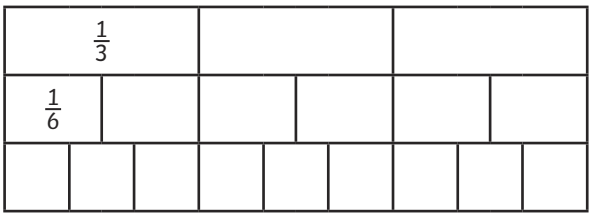

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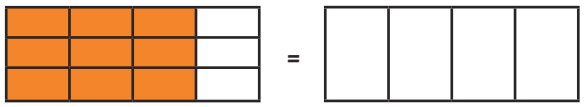
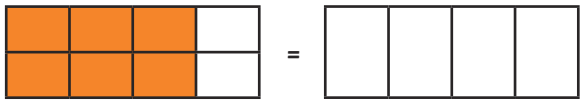
Equivalent Fraction Families

1) Shade the equivalent fractions.
Which pair of diagrams do you think is the odd one out? Explain why.

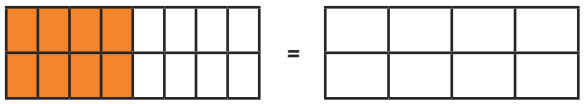
A



B



C



2) Is each child's statement true or false? Prove it and explain your reasoning using diagrams or words.

Priya

Equivalent fractions always have the same numerator.

I can find every equivalent fraction to $\frac{1}{2}$ just by doubling the numerator and denominator each time.

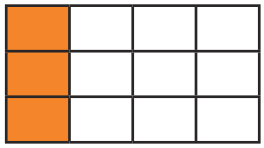
$$\frac{1}{2} = \frac{2}{4} = \frac{4}{8} = \frac{8}{16}$$

Drew

3) Do you agree with this statement?
Explain your reasoning.

All of these fractions and fraction representations are equivalent.

A

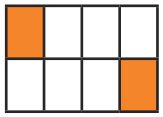


B

C two-eighths

D $\frac{4}{16}$

E



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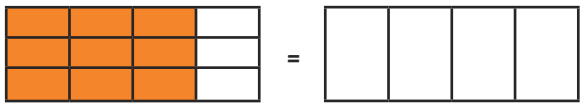
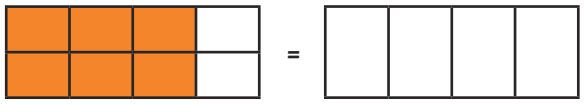
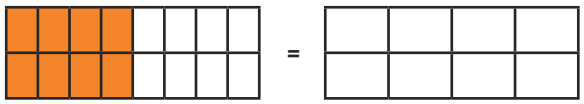


B



C



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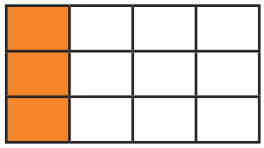

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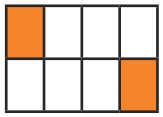

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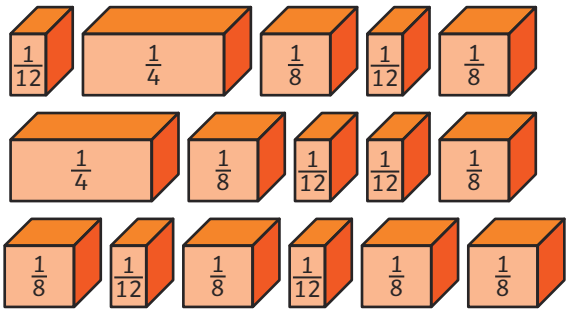
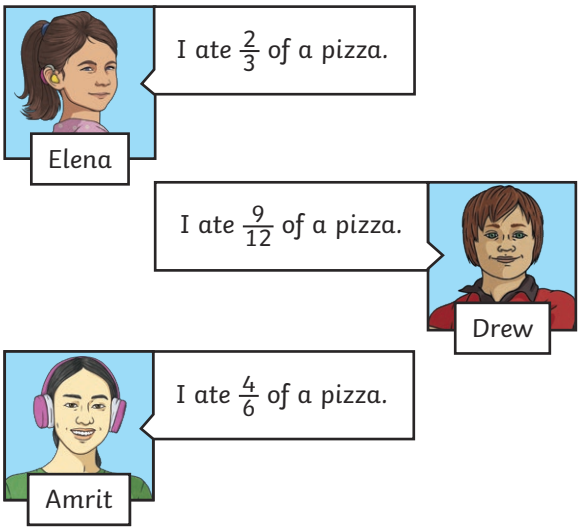
Equivalent Fraction Families

1) Abi and Felix want to share all of these parts of a fraction wall between them so they each have the equivalent to 1 whole.



Find three different possibilities.

2) Elena, Drew and Amrit all ate some pizza at a birthday party.



Who ate the most pizza? Draw a bar model or diagram to support your answer.

3) Use the digit cards below to make a fraction family equivalent to $\frac{1}{2}$.

The denominator of each fraction must be less than 20.

0	1	2	3	4
5	6	7	8	

For example:

$$\frac{1}{2} = \frac{6}{12}$$

a) Find all possible answers.

b) What do you notice about the fractions you have found?

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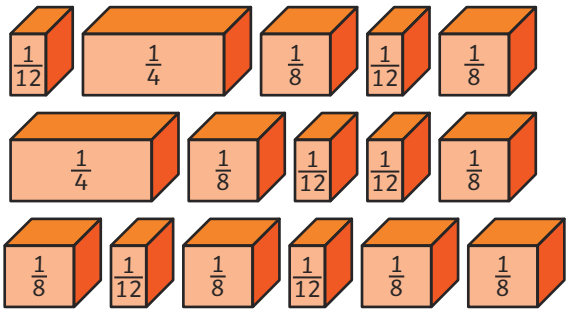

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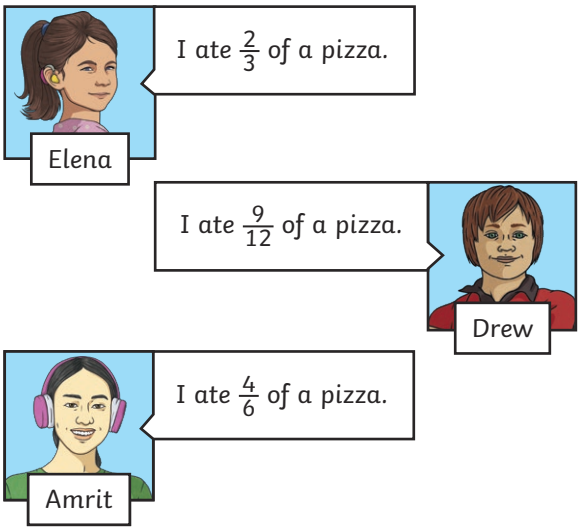

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