Make Equal Parts

Adult Guidance with Question Prompts

Children learn about equal and unequal parts. They use objects such as counters and pictures to recognise and create equal and unequal parts. Children could use cubes or counters to represent the apples when exploring making equal and unequal groups.

What does equal mean?

What shape is the whole?

How many parts has the circle/square been split into?

Do all of the parts look the same size?

Are they equal? Explain how you know.

Can you think of a different way to split a square into equal parts?

What strategy could we use to split the apples equally?

How many groups do we need to make?

What could you use to help you?

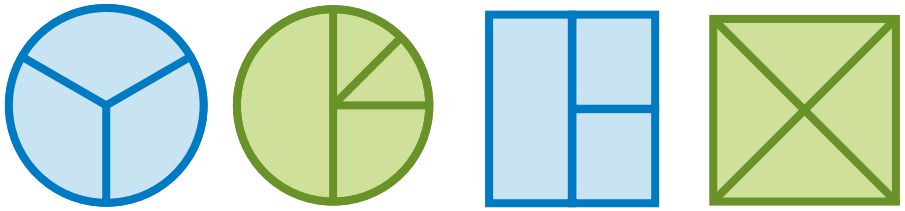
Do you have the same amount of apples in each group?

How do you know that the groups are unequal?

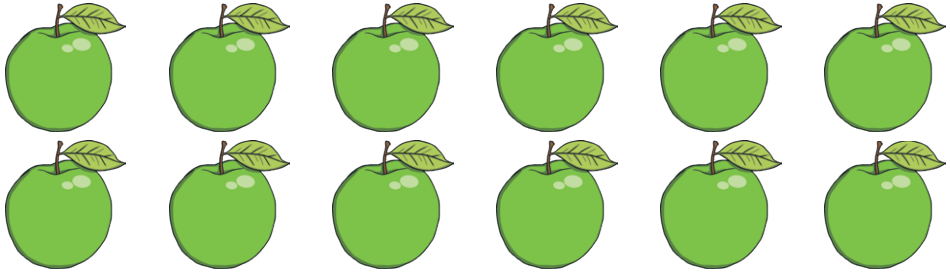
Could you split them unequally in a different way?

Make Equal Parts

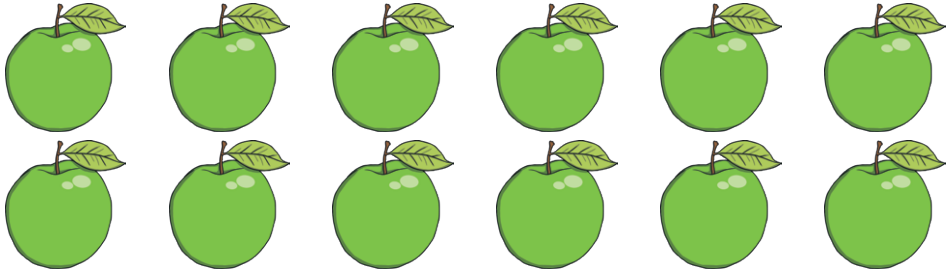
Tick the shapes that are split into equal parts.



Can you split the apples into four equal groups? Use cubes or counters to help if you need to.



Can you split the apples into unequal groups?



Make Equal Parts

Adult Guidance with Question Prompts

Children consider whether equal parts are represented. They count quantities to decide if two parts are equal. Different solutions are presented requiring children to explain how both can be correct. Children could investigate other ways of shading half of the grid.

Have Ben and Zahra shaded their shapes in the same pattern?

How many squares are there in the whole shape?

How many squares in Ben's shape are shaded in blue?

How many are not shaded?

Are the numbers equal?

Can you think of a word to describe how much of Ben's shape is shaded?

How many squares are there in total?

How many squares in Zahra's shape are shaded in blue?

How many are not shaded?

Are the numbers equal?

Is half of Zahra's shape shaded?

Who is correct?

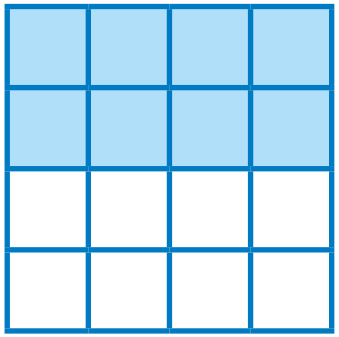
Explain how you know?

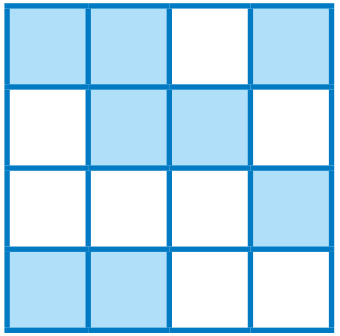
Could Ben and Zahra have shaded the shape into equal parts in any other ways? Prove it.

Make Equal Parts

Ben and Zahra both think they have shaded equal parts of their shapes.

Ben





Zahra

Are they correct?
Explain how you know.

Make Equal Parts

Adult Guidance with Question Prompts

Children will benefit from having counters or objects during this activity so that they are able to use them to explore creating all of the possible solutions.

How could you split the shape into equal parts?

How many squares are there in total?

What could you use to help you find out how many squares make one equal part?

How will you know that each part is equal?

Can you find another way?

Can you work systematically?

Do you know another name for each part that is shaded?

How do you know that you have found all the solutions?

Make Equal Parts

How many different ways can you find to split the rectangle into four equal parts?