

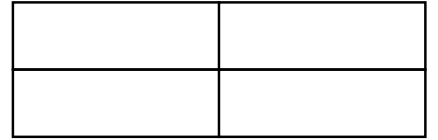
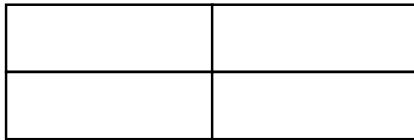
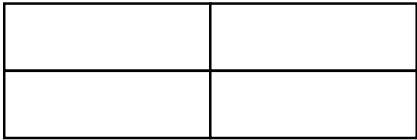
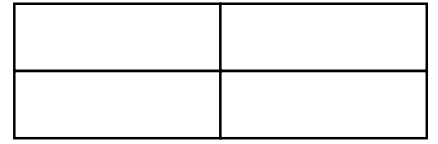
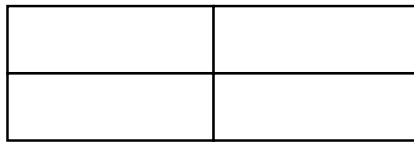
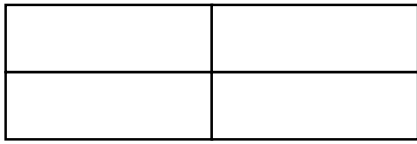


# Shading Shapes

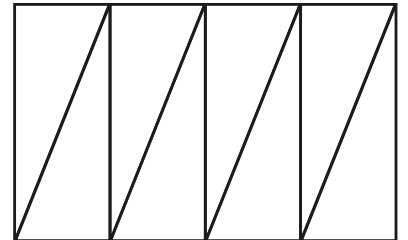
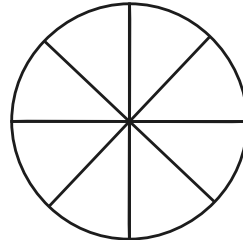
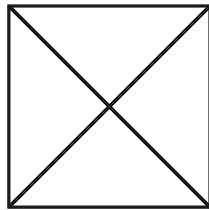
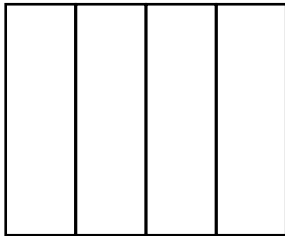
I can shade  $\frac{1}{2}$ ,  $\frac{1}{4}$  or  $\frac{2}{4}$  of a shape.



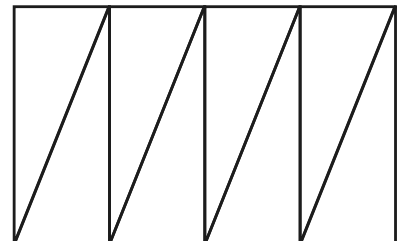
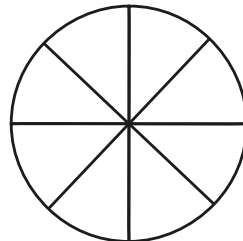
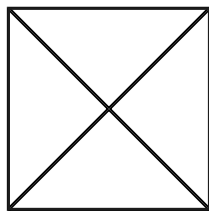
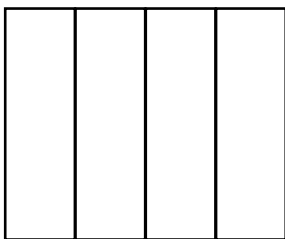
1. Can you find 6 different ways to shade  $\frac{1}{2}$  of these shapes?



2. Shade  $\frac{1}{4}$  of these shapes.



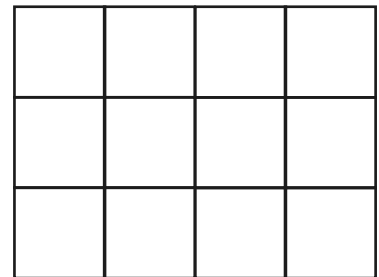
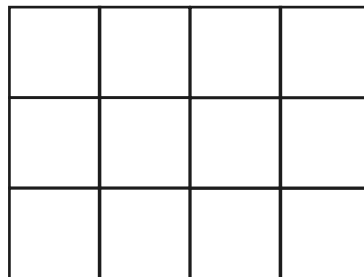
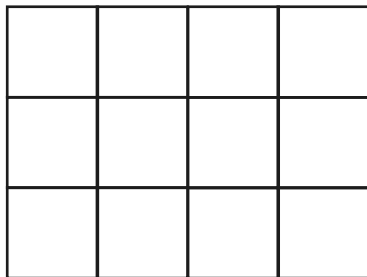
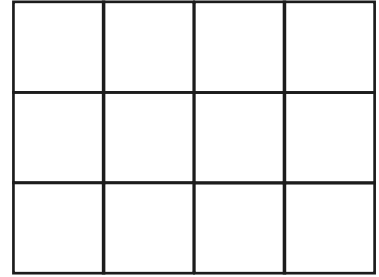
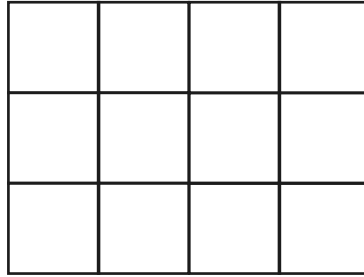
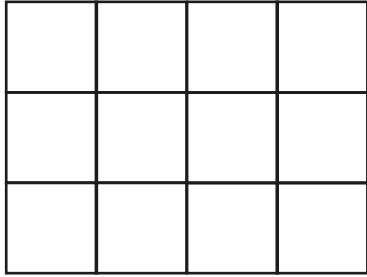
3. Now shade  $\frac{1}{4}$  in a different way.





# Shading Shapes

4. Find different ways to colour  $\frac{2}{4}$  of this shape.



5. How did you know how many squares to colour?

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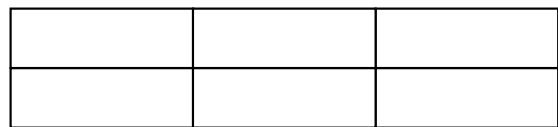
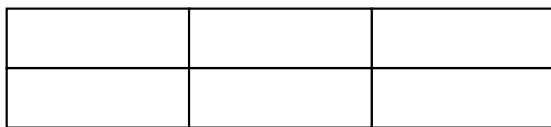
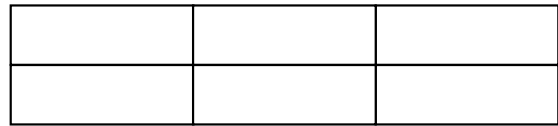
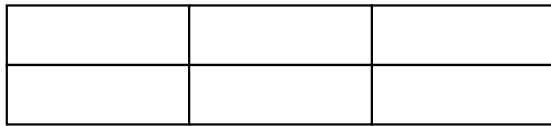
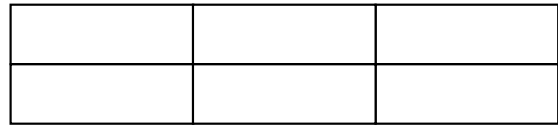
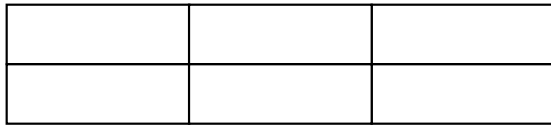
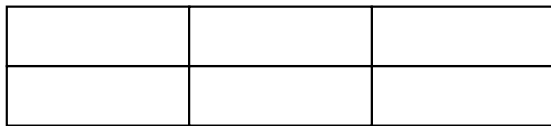


# Shading Shapes

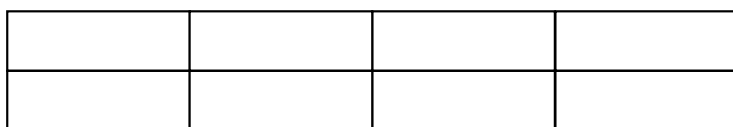
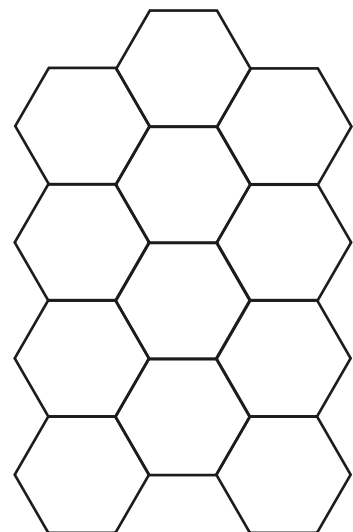
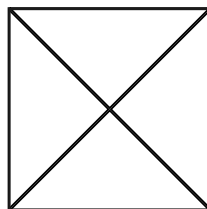
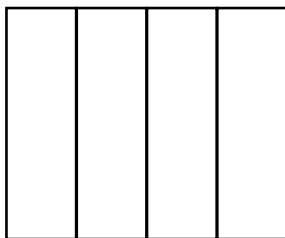
I can shade  $\frac{1}{2}$ ,  $\frac{1}{4}$  or  $\frac{2}{4}$  of a shape.



1. Can you find 10 different ways to shade  $\frac{1}{2}$  of these shapes?



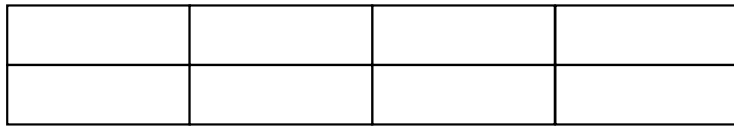
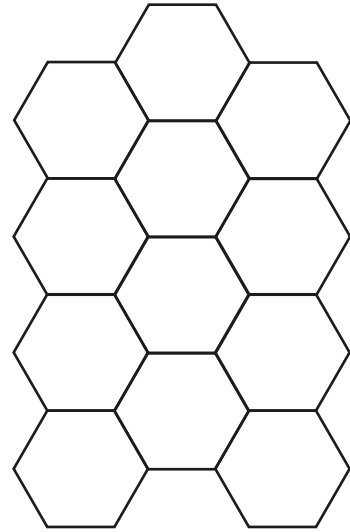
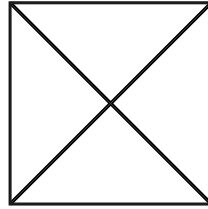
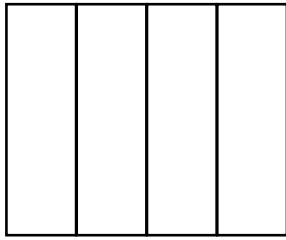
2. Shade  $\frac{1}{4}$  of these shapes.



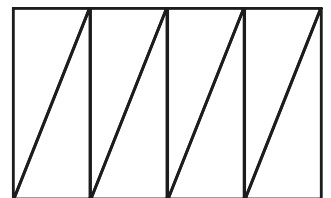
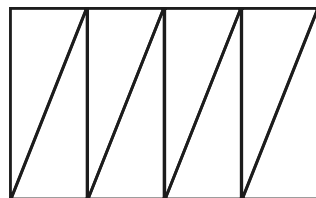
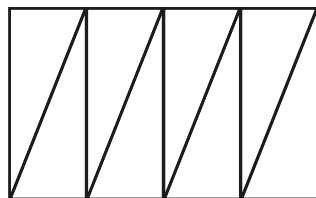
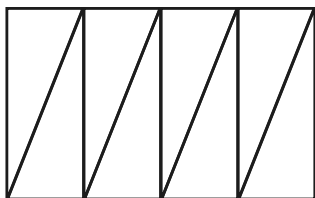
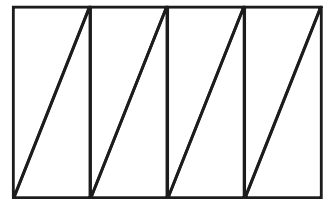
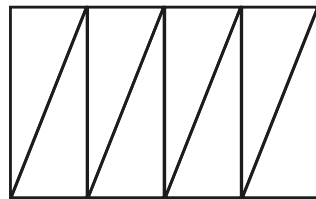
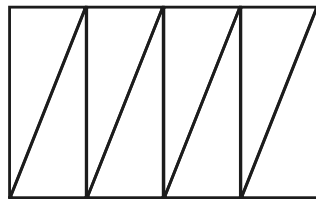
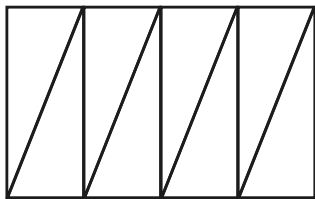


# Shading Shapes

3. Shade  $\frac{2}{4}$  of these shapes.



4. Find 8 different ways to colour  $\frac{1}{4}$  of this shape.



5. How would you explain  $\frac{1}{2}$  to someone?

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How would you explain  $\frac{1}{4}$  to someone?

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How would you explain  $\frac{2}{4}$  to someone?

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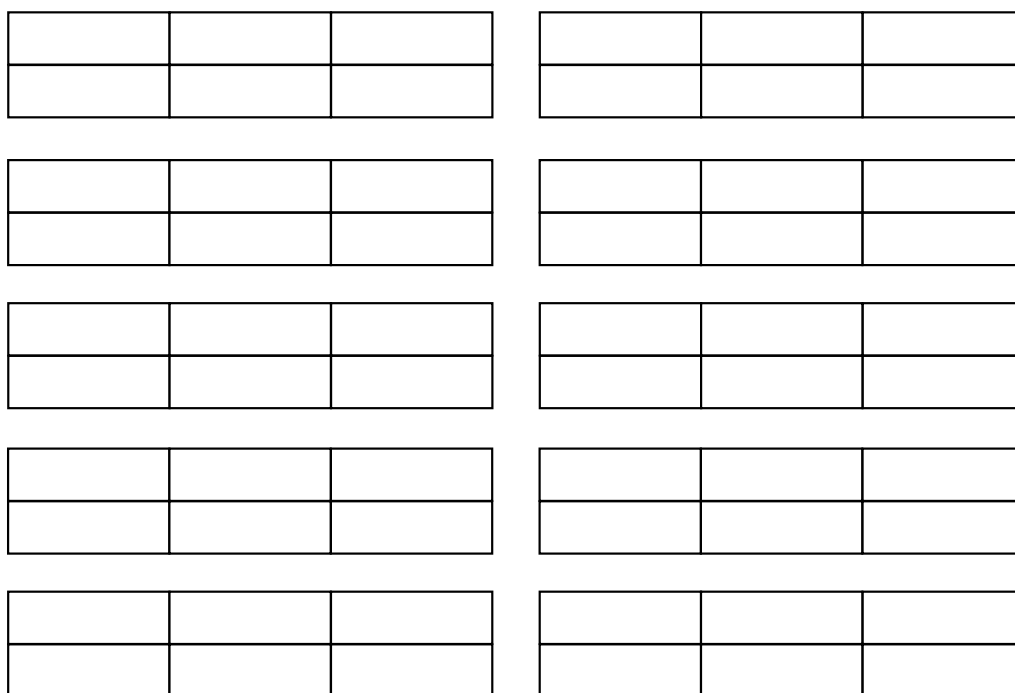


# Shading Shapes

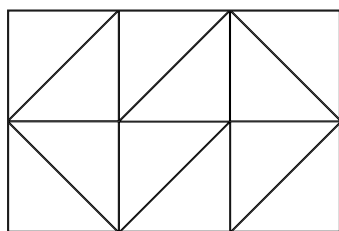
I can shade  $\frac{1}{2}$ ,  $\frac{1}{4}$  or  $\frac{2}{4}$  of a shape.



1. Can you find 10 different ways to shade  $\frac{1}{2}$  of these shapes?



2. Colour  $\frac{1}{4}$  of these shapes. Put a cross against any that you can't colour  $\frac{1}{4}$  of and explain the reason why.

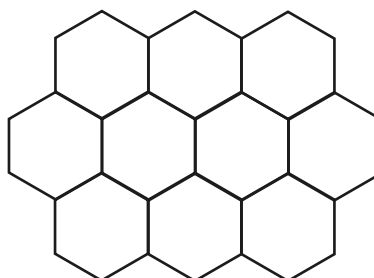


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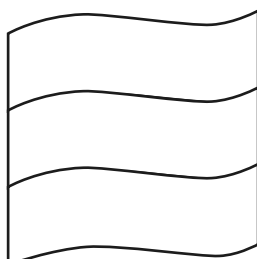


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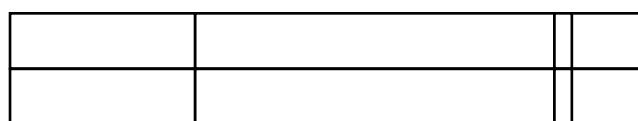


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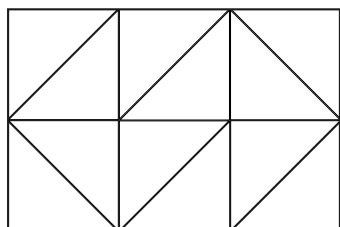
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# Shading Shapes

3. Colour  $\frac{2}{4}$  of these shapes. Put a cross against any that you can't colour  $\frac{2}{4}$  of and explain the reason why.

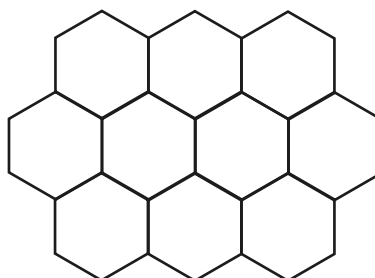


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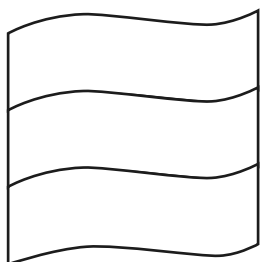


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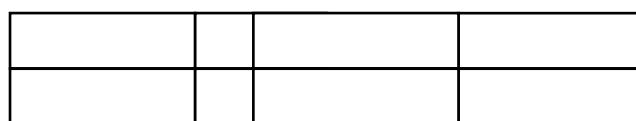


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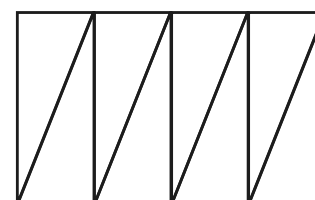
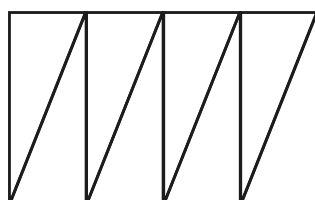
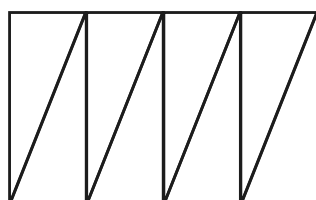
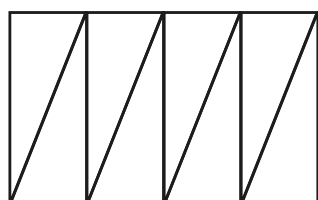
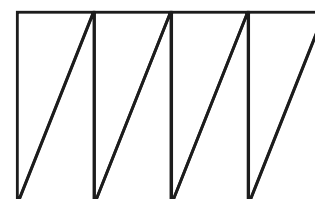
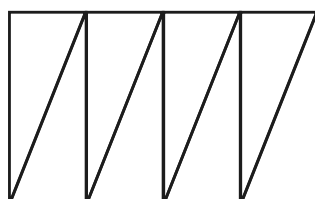
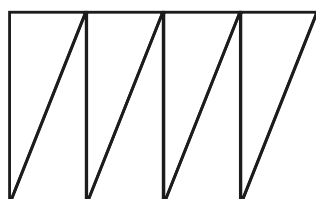
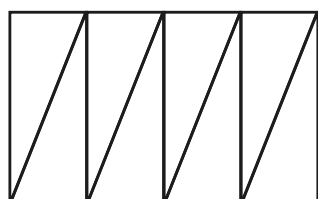
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4. Find 8 different ways to colour  $\frac{1}{4}$  of this shape.



How many possible ways do you think there will be altogether?

Between 1 and 10

Between 10 and 20

More than 20

Give a reason for your answer.

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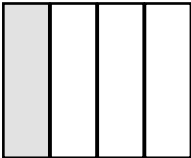
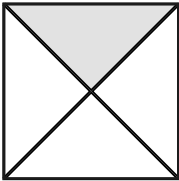
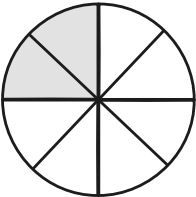
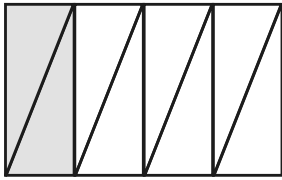
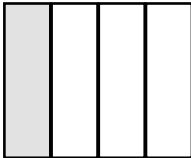
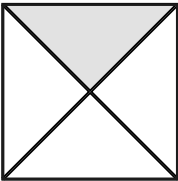
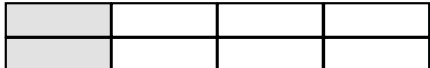
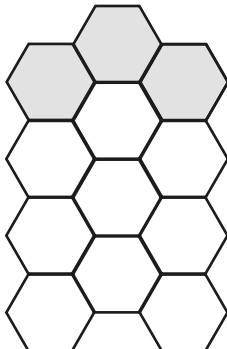
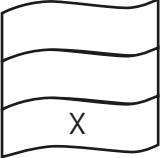
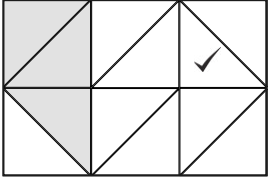
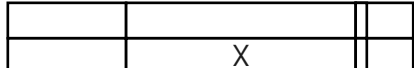
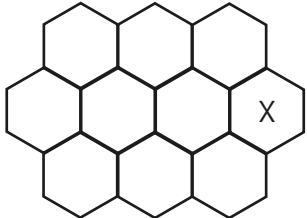
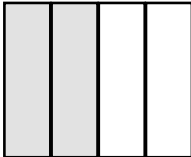
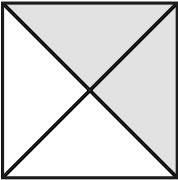
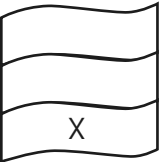
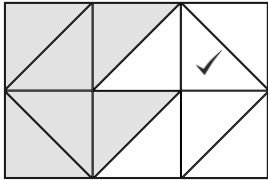
# Shading Shapes

5. How would you explain  $\frac{2}{4}$  to someone?

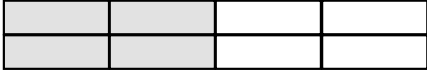
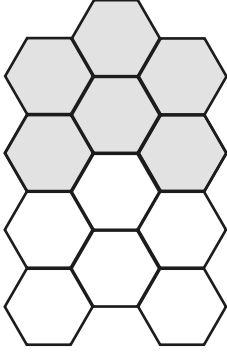
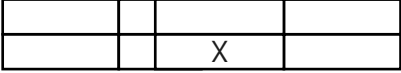
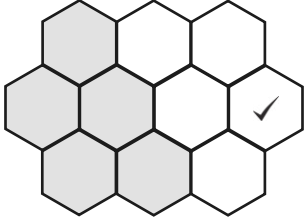
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# Shading Shapes Answer Sheet

	LA	MA	HA
1	Accept any 2 squares shaded that are different to the others.	Accept any 3 squares shaded that are different to the others.	Accept any 3 squares shaded that are different to the others.
2	<p>Any 1 section.</p>  <p>Any 1 section.</p>  <p>Any 2 sections.</p>  <p>Any 2 sections.</p> 	<p>Any 1 section.</p>  <p>Any 1 section.</p>  <p>Any 2 sections.</p>  <p>Any 3 sections.</p> 	<p>There are not 4 equal sections.</p>  <p>Any 3 sections.</p>  <p>Sections are not equal in size.</p>  <p>There are 10 sections, you can't find <math>\frac{1}{4}</math> of 10.</p>  <p>*a child with a very high level of understanding may colour <math>2\frac{1}{2}</math> sections which is then correct.</p>
3	As above but a different section.	<p>Any 2 sections.</p>  <p>Any 2 sections.</p> 	<p>There are no equal sections.</p>  <p>Any 6 sections.</p> 



	LA	MA	HA
3		<p>Any 4 sections.</p>  <p>Any 6 sections.</p> 	<p>Sections are not equal in size.</p>  <p>Any 5 sections.</p> 
4	Accept any 6 sections shaded that are different to the others.	Accept any 2 sections shaded that are different to the others.	<p>Accept any 2 sections that are different to the others.</p> <p>They should have easily found 8 so will work out there are more than 10.</p> <p>There are 28 ways. Children may be able to work methodically to predict how many ways there are.</p>
5	<p><math>\frac{1}{4}</math> of 12 = 3 so I shaded 6.</p> <p><math>\frac{2}{4}</math> is the same as <math>\frac{1}{2}</math>.</p> <p>Any reasoning to a similar effect.</p>	<p><math>\frac{1}{2}</math> is one part of something that is divided into 2 equal parts.</p> <p><math>\frac{1}{4}</math> is one part of something that has been divided into 4 equal parts.</p> <p><math>\frac{2}{4}</math> is 2 of 4 equal parts OR <math>\frac{2}{4}</math> is equivalent to <math>\frac{1}{2}</math>.</p> <p>Accept any similar explanations.</p>	<p><math>\frac{2}{4}</math> is 2 of 4 equal parts OR <math>\frac{2}{4}</math> is equivalent to <math>\frac{1}{2}</math>.</p> <p>Accept any similar explanations.</p>