Reasoning and Problem Solving Step 1: Make Equal Parts

National Curriculum Objectives:

Mathematics Year 2: (2F1a) Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Explain whether a statement is correct when dividing objects into equal and unequal groups. Includes dividing objects arranged in an array into 2 equal groups. Expected Explain whether a statement is correct when dividing objects into equal and unequal groups. Includes dividing objects arranged in arrays and at random, into up to 4 equal or unequal groups.

Greater Depth Explain whether a statement is correct when dividing objects into equal and unequal groups. Includes dividing objects arranged in arrays and at random, into up to 4 equal or unequal groups.

Questions 2, 5 and 8 (Problem Solving)

Developing Divide the shapes into the correct number of equal or unequal parts, using squares and circles.

Expected Divide the shapes into the correct number of equal or unequal parts, using squares, rectangles and circles.

Greater Depth Divide the shapes into the correct number of equal or unequal parts, using various shapes.

Questions 3, 6 and 9 (Reasoning)

Developing Explain whether groups of shapes have been divided into equal groups.

Shapes are divided into two parts only and are arranged in order

Expected Explain whether groups of shapes have been divided into equal groups. Shapes

Expected Explain whether groups of shapes have been divided into equal groups. Shapes have been divided into three parts. Some shapes are arranged randomly.

Greater Depth Explain whether group of shapes have been divided into equal groups. Shapes have been divided into three or four groups. Shapes are arranged randomly.

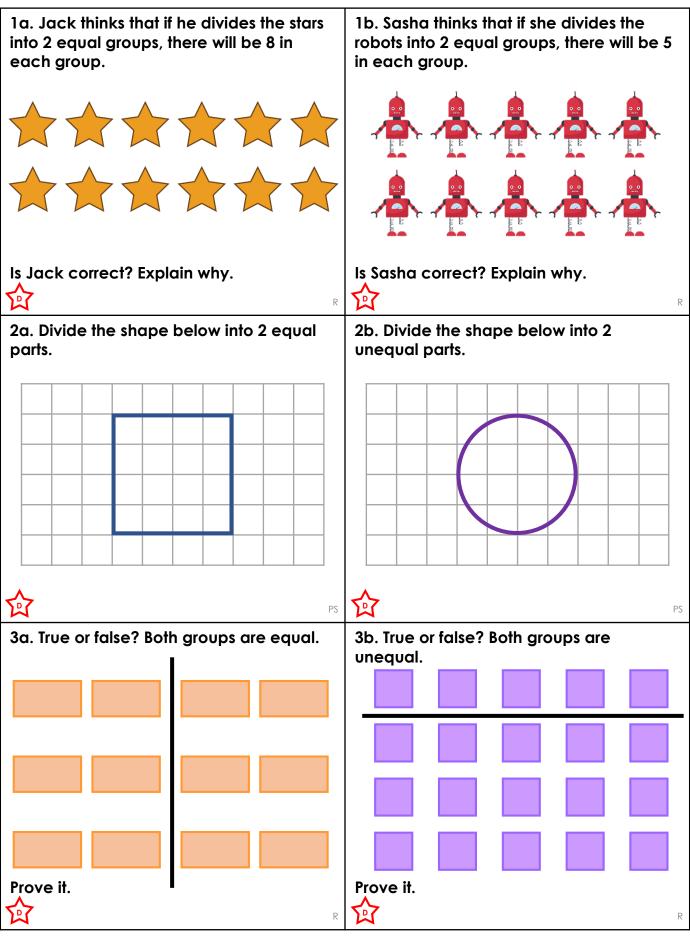
More Year 2 Fractions resources.

Did you like this resource? Don't forget to review it on our website.



Make Equal Parts

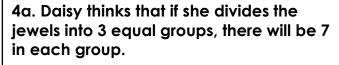
Make Equal Parts

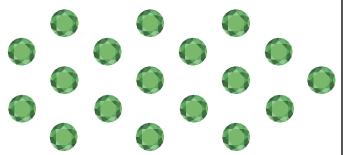




Make Equal Parts

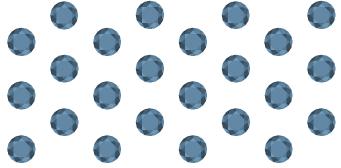
Make Equal Parts





Is Daisy correct? Explain why.

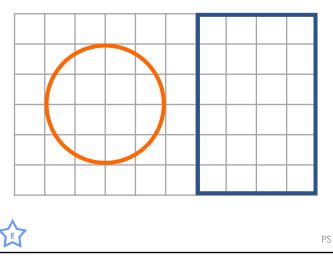
4b. Mo thinks that if he divides the jewels into 4 equal groups, there will be 6 in each group.



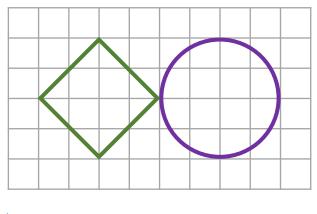
Is Mo correct? Explain why.



5a. Divide the shapes below into 4 unequal parts.

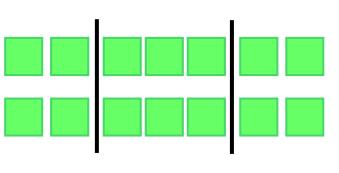


5b. Divide the shapes below into 4 equal parts.

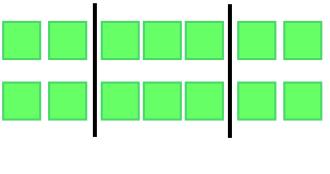




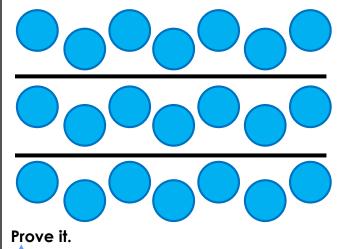
6a. True or false? All the groups are equal.



Prove it.



6b. True or false? All the groups are equal.





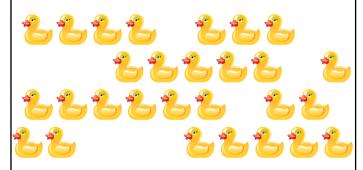


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Make Equal Parts

Make Equal Parts

7a. Omar thinks that if he divides the ducks into 4 equal groups, there will be 6 in each group.



Is Omar correct? Explain why.



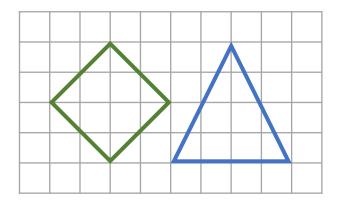
7b. Jill thinks that if she divides the basketballs into 4 equal groups, there will be 4 in each group.

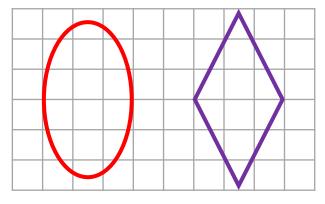


Is Jill correct? Explain why.



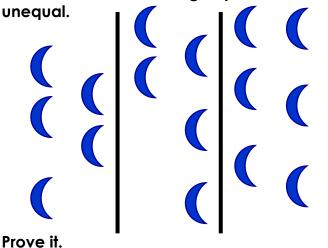
8a. Divide the shapes below into 3 8b. Divide the shapes below into 4 equal unequal parts. parts.



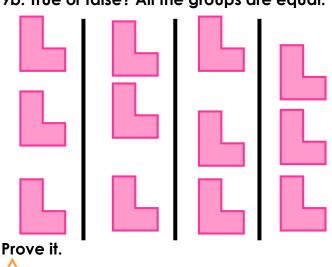




9a. True or false? All the groups are



9b. True or false? All the groups are equal.





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Reasoning and Problem Solving **Make Equal Parts**

Developing

1a. Jack is incorrect because $12 \div 2 = 6$ so there will be 6 stars in each equal group. 2a. Various answers, for example:





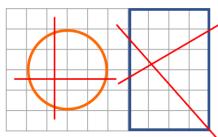


3a. True because there are 6 rectangles in each equal group.

Expected

4a. Daisy is incorrect because $18 \div 3 = 6$ so there will be 6 jewels in each equal group.

5a. Various answers, for example:

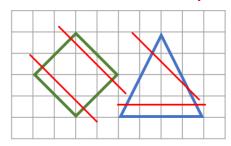


6a. False because the middle group has 6 squares and the other two groups have 4 squares each.

Greater Depth

7a. Omar is incorrect because $28 \div 4 = 7$ so there will be 7 ducks in each equal group.

8a. Various answers, for example:



9a. False because two groups are equal with 5 moons in each group. The third group has 6 moons.

Reasoning and Problem Solving **Make Equal Parts**

Developing

1b. Sasha is correct because $10 \div 2 = 5$ so there will be 5 robots in each group.

2b. Various answers, for example:





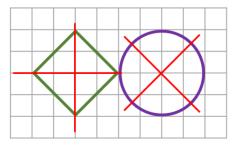


3b. True because unequal parts are not the same and there are 5 squares in one group and 15 squares in the other group.

Expected

4b. Mo is correct because $24 \div 4 = 6$ so there will be 6 jewels in each group.



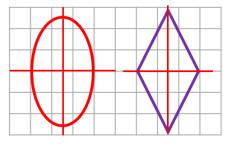


6b. True because each group contains 7 circles.

Greater Depth

7b. Jill is incorrect because $20 \div 4 = 5$ so there will be 5 basketballs in each equal group.

8b. Various answers, for example:



9b. True because each group contains 3 L-shapes so each group is equal.

