Reasoning and Problem Solving
Step 2: Recognise a Half

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 if an image including one object divided by a vertical line represents a half.
Expected Explain if an image including a number of objects represents a half. Objects divided by a horizontal or vertical line.
Greater Depth Explain if an image including a number of mixed objects, divided by a vertical or diagonal line, represents a half.

Questions 2, 5 and 8 (Problem Solving)
Developing Match the halves together and complete the half for the odd one out; using shapes. Shapes include circles and squares.
Expected Match the halves together and complete the half for the odd one out; using objects.
Greater Depth Match the halves together and complete the half for the odd one out; using objects in different orders and/or mixed objects.

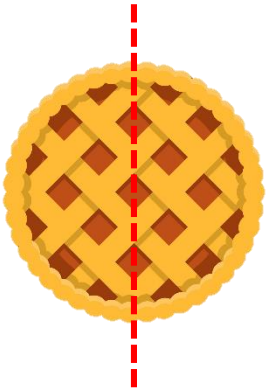
Questions 3, 6 and 9 (Reasoning)
Developing Explain which statement about the half of a shape is correct and why. Shapes include circles and squares.
Expected Explain which statement about the half of an object or shape, including circle, triangles and quadrilaterals when the half is shown using a horizontal or vertical line, is correct and why.
Greater Depth Explain which statement about the half of an object or shape, including circles, triangles, quadrilaterals and polygons when the half is shown using a mixture of horizontal, vertical or diagonal lines is correct and why.

More Year 2 Fractions resources.

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

Recognise a Half

1a. True or false? The following object is divided into half.



Explain how you know.

D R

2a. Match the halves to find the odd one out.

A.

B.

C.

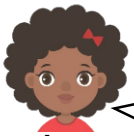
D.

E.

Draw the matching half for the odd one out.

D PS

3a. Amy and Zac are talking about halves.



Amy

It is not a half because the shape is not in two equal parts.

It is a $\frac{1}{2}$ because 1 add 2 is 3 and there are three parts.

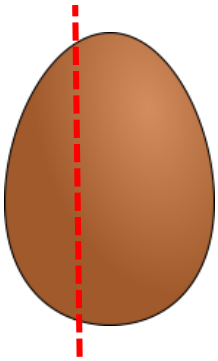
Zac

Who is correct? Convince me.

D R

Recognise a Half

1b. True or false? The following object is divided into half.



Explain how you know.

D R

2b. Match the halves to find the odd one out.

A.

B.

C.

D.

E.

Draw the matching half for the odd one out.

D PS

3b. Beth and Tom are talking about halves.

Beth

It is not a half because the whole shape is shaded.

It is a $\frac{1}{2}$ because there are 2 equal parts.

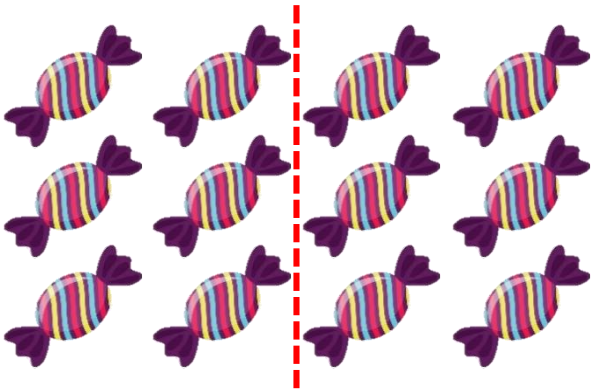
Tom

Who is correct? Convince me.

D R

Recognise a Half

4a. True or false? The following objects are divided into half.



Explain how you know.

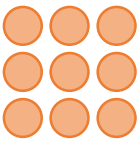
E R

5a. Match the halves to find the odd one out.

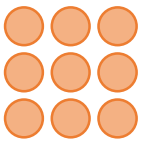
A.

B.

C.



D.



E.

Draw the matching half for the odd one out.

E PS

6a. Mary and Ashley are talking about halves.

Mary

It is not a half because the shape is not split down the middle.

It is $\frac{1}{2}$ because the shape has two equal parts.

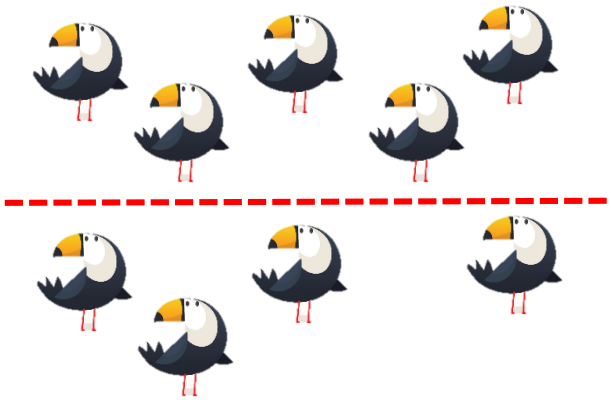
Ashley

Who is correct? Convince me.

E R

Recognise a Half

4b. True or false? The following objects are divided into half.



Explain how you know.

E R

5b. Match the halves to find the odd one out.

A.

B.

C.

D.

E.

Draw the matching half for the odd one out.

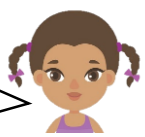
E PS

6b. Sam and Leah are talking about halves.

Sam

It is not a half because the parts are not equal.

It is a $\frac{1}{2}$ because the shape has been split into two parts.



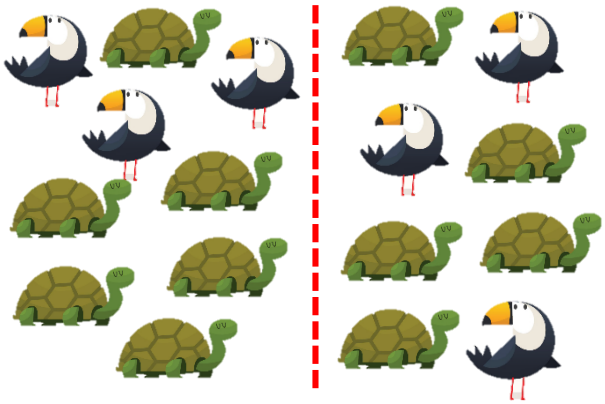
Leah

Who is correct? Convince me.

E R

Recognise a Half

7a. True or false? The following objects are divided into half.



Explain how you know.

GD R

8a. Match the halves to find the odd one out.

A.

B.

C.

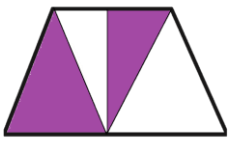
D.

E.

Draw the matching half for the odd one out.

GD PS

9a. Dom and Layla are talking about halves.



Dom

It is not a $\frac{1}{2}$ because there is more than one shaded part.

It is a half because the two parts together equal half of the whole shape.

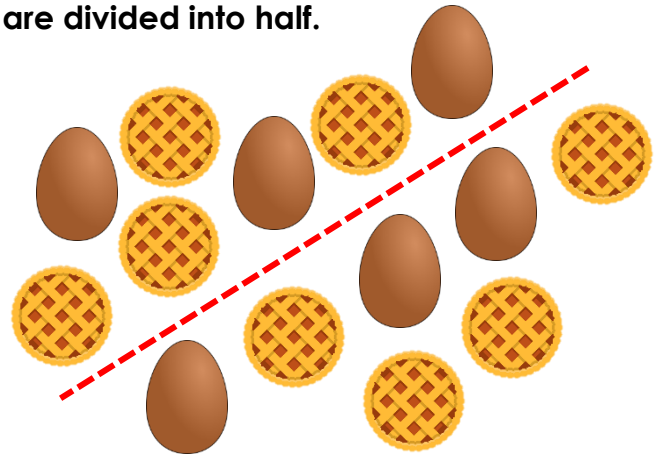
Layla

Who is correct? Convince me.

GD R

Recognise a Half

7b. True or false? The following objects are divided into half.



Explain how you know.

GD R

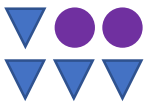
8b. Match the halves to find the odd one out.

A.

B.

C.

D.

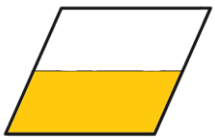


E.

Draw the matching half for the odd one out.

GD PS

9b. Isra and Luke are talking about halves.



Isra

It is not a $\frac{1}{2}$ because if you fold the shape along the line the shape is not equal.

It is a half because if you cut along the line and match the parts up they are equal.

Luke

Who is correct? Convince me.

GD R

Reasoning and Problem Solving
Recognise a Half

Developing

1a. True because the two parts are equal.
2a. C is the odd one out. Drawing of half a circle.
3a. Amy is correct because to make a half there needs to be 2 equal parts.

Expected

4a. True because each half has an equal number of sweets.
5a. B is the odd one out. Accept a drawing of 8 circles.
6a. Ashley is correct because it does not matter which way the shape is divided as long as the two parts are equal.

Greater Depth

7a. False because each half does not have an equal number of tortoises.
8a. C is the odd one out. Accept a drawing of 9 triangles and 1 square.
9a. Layla is correct because the two parts equal half of the shape.

Reasoning and Problem Solving
Recognise a Half

Developing

1b. False because the two parts are not equal.
2b. B is the odd one out. Drawing of half of a rectangle.
3b. Tom is correct because to make a half there needs to be 2 equal parts.

Expected

4b. False because each half does not have an equal number of birds.
5b. E is the odd one out. Accept a drawing of 5 triangles.
6b. Sam is correct because the two parts must be equal.

Greater Depth

7b. True because each half has an equal number of eggs and pies.
8b. C is the odd one out. Accept a drawing that includes 2 circles and 3 triangles.
9b. Luke is correct because the two parts are equal.