

# Homework/Extension

## Step 3: Find a Quarter of a Shape or Object

### National Curriculum Objectives:

Mathematics Year 1: (1F1b) [Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity](#)

### Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

**Developing** Use the letters of the shapes to fill in the gaps. All items symmetrical and quartered by vertical and horizontal lines.

**Expected** Use the letters of the shapes to fill in the gaps. All items symmetrical but more options for quartering available.

**Greater Depth** Use the letters of the shapes to fill in the gaps. Items may be asymmetrical and can be quartered by vertical, horizontal or diagonal lines. More possibilities for quartering shapes are explored.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Decide if the statement is true or false. All items symmetrical and quartered by vertical and horizontal lines.

**Expected** Decide if the statement is true or false. All items symmetrical but more options for quartering available.

**Greater Depth** Decide if the statement is true or false. Items may be asymmetrical and can be quartered by vertical, horizontal or diagonal lines. More possibilities for quartering shapes are explored.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

**Developing** Explain if a given statement about identifying quarters of shapes is correct. All items symmetrical and quartered by vertical and horizontal lines.

**Expected** Explain if a given statement about identifying quarters of shapes is correct. All items symmetrical but more options for quartering available.

**Greater Depth** Explain if a given statement about identifying quarters of shapes is correct. Items may be asymmetrical and can be quartered by vertical, horizontal or diagonal lines. More possibilities for quartering shapes are explored.

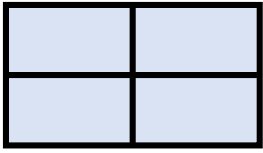
More [Year 1 Fractions](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

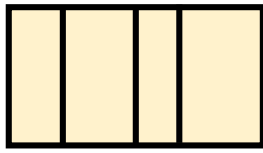
# Find a Quarter of a Shape or Object

1. Fill in the gaps with the correct letters.

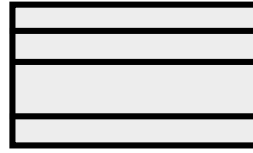
A.



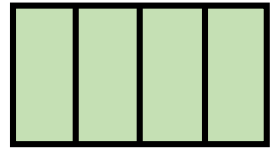
B.



C.



D.



Shapes  and  are split into equal quarters.

Shapes  and  are not split into equal quarters.



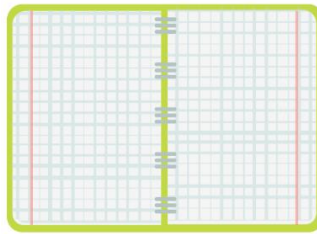
VF  
HW/Ext

2. True or false? All of the objects below can all be split into equal quarters.

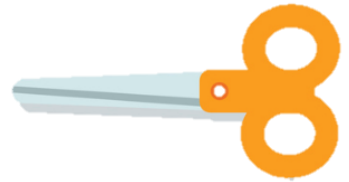
A.



B.



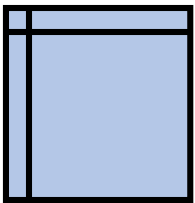
C.



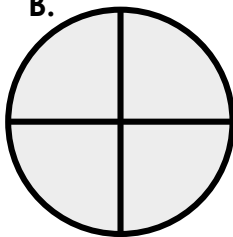
VF  
HW/Ext

3. Amelie has drawn some shapes. She says,

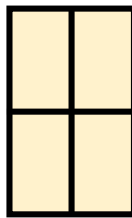
A.



B.



C.



All shapes show equal quarters if they are split into 4 parts.



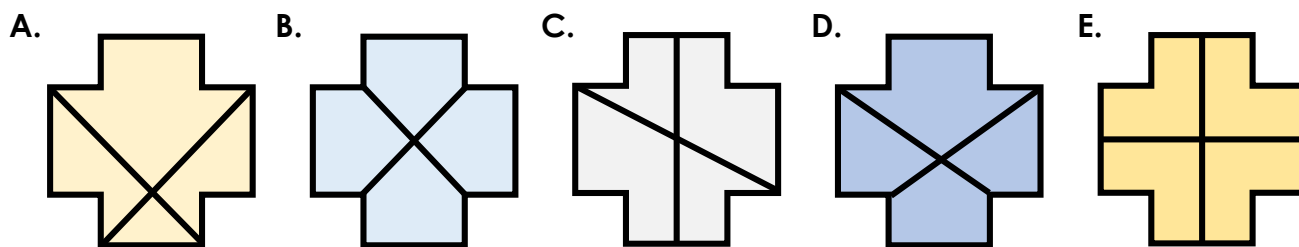
Do you agree with Amelie? Explain why.



RPS  
HW/Ext

# Find a Quarter of a Shape or Object

4. Fill in the gaps with the correct letters.



Shapes  and  are split into equal quarters.

Shapes ,  and  are not split into equal quarters.



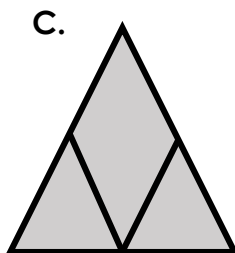
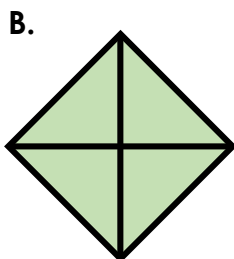
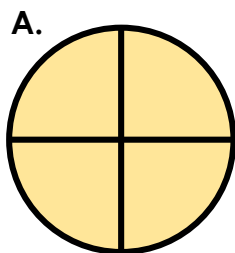
VF  
HW/Ext

5. True or false? All of the objects below can all be split into equal quarters.

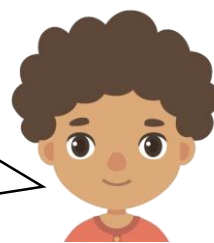


VF  
HW/Ext

6. Alex has drawn some shapes. He says,



I can split all of these shapes into equal quarters with just 2 lines in each shape.



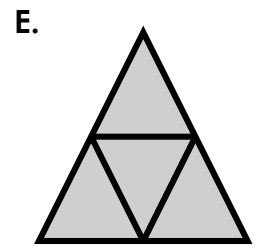
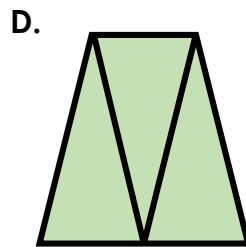
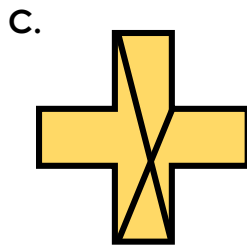
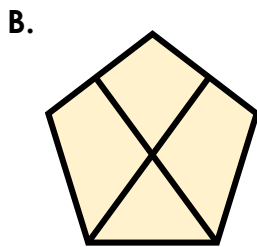
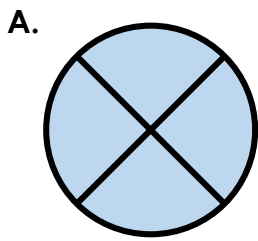
Do you agree with Alex? Explain why.



RPS  
HW/Ext

# Find a Quarter of a Shape or Object

7. Fill in the gaps with the correct letters.



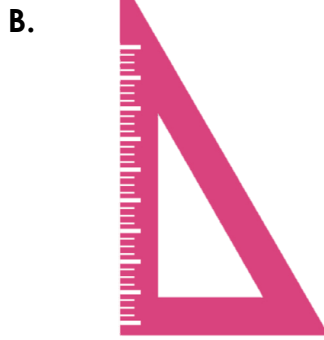
Shapes  and  are split into equal quarters.

Shapes ,  and  are not split into equal quarters.



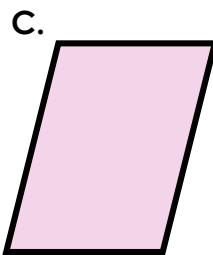
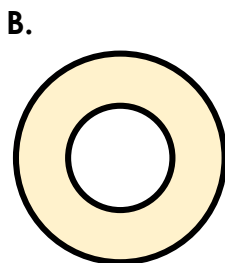
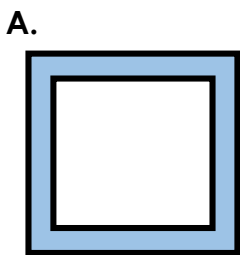
VF  
HW/Ext

8. True or false? All of the objects below can all be split into equal quarters using only diagonal lines.

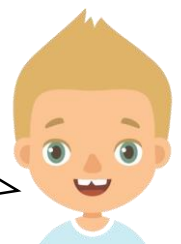


VF  
HW/Ext

9. Benjamin has drawn some shapes. He says,



I can split all of these shapes into equal quarters using up to 3 lines.



Do you agree with Benjamin? Explain why.



RPS  
HW/Ext

## Homework/Extension

### Find a Quarter of a Shape or Object

#### Developing

1. Shapes A and D are split into equal quarters. Shapes B and C are not split into equal quarters.
2. False. Only B can be split into equal quarters.
3. Amelie is incorrect. B and C are split into equal quarters but A is not. Although there are 4 parts, they are not equal.

#### Expected

4. Shapes B and E are split into equal quarters. Shapes A, C and D are not split into equal quarters.
5. False. Only A can be split into equal quarters.
6. Alex is incorrect. A and B can be split into equal quarters using two lines, but C will require three lines.

#### Greater Depth

7. Shapes A and E are split into equal quarters. Shapes B, C and D are not split into equal quarters.
8. False. None of the objects can be split into equal quarters using only diagonal lines.
9. Benjamin is correct. All the shapes can be split into equal quarters using two lines.