# Worksheet - Fractions: halves and quarters

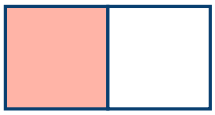
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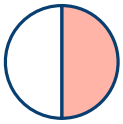
Show your working.

## Question 1

**Question 1 – Is it a half?** *(Section A · Practice)*

Look at each shape. Say whether it is cut into halves. Explain how you know.

a.  (two equal rectangles)

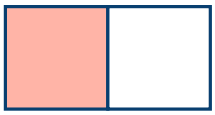
b.  (two equal semicircles)

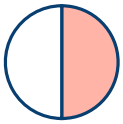
c. A square cut into one big piece and one small piece.

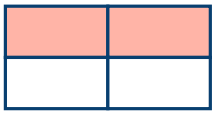
## Question 2

**Question 2 – Colour a half** *(Section A · Practice)*

Look at each picture. What fraction is coloured?

a. 

b. 

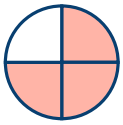
c. 

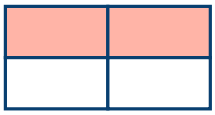
## Question 3

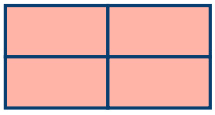
**Question 3 – Colour a quarter** *(Section A · Practice)*

Look at each picture. What fraction is coloured? Write a quarter, a half or three quarters.

a. 

b. 

c. 

d. 

## Question 4

**Question 4 – Half of a number** *(Section A · Practice)*

Find half of each number. Share the objects into 2 equal groups.

a. Half of 4
b. Half of 8
c. Half of 12
d. Half of 18
e. Half of 20

## Question 5

**Question 5 – A quarter of a number** *(Section A · Practice)*

Find a quarter of each number. Share into 4 equal groups.

a. A quarter of 4
b. A quarter of 8
c. A quarter of 12
d. A quarter of 16
e. A quarter of 20

## Question 6

**Question 6 – Whole, half or quarter** *(Section A · Practice)*

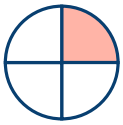
Complete each sentence with whole, half or quarter.

a. 2 halves make one ____.
b. 4 quarters make one ____.
c. 2 quarters make one ____.
d. Half of a half is a ____.

## Question 7

**Question 7 – Sharing a pizza** *(Section B · Real-life practice)*

Dad cuts a pizza into 4 equal slices. Ali eats 1 slice. Bea eats 2 slices. Sam eats 1 slice.

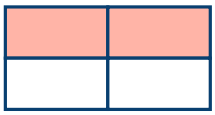


a. What fraction of the pizza does Ali eat?
b. What fraction of the pizza does Bea eat? Write it as a quarters fraction and as a half.
c. What fraction of the pizza do Ali and Sam eat together?
d. Is any pizza left?

## Question 8

**Question 8 – Cutting the sandwich** *(Section B · Real-life practice)*

Maya cuts her sandwich in half. Then she cuts each half in half again. She eats one piece and gives one piece to her friend.



a. How many pieces does she make?
b. What fraction of the sandwich is each piece?
c. What fraction of the sandwich do Maya and her friend eat together?
d. What fraction of the sandwich is left?

## Question 9

**Question 9 – Toy cars** *(Section B · Real-life practice)*

Tom has 12 toy cars. He gives half of them to his brother. His sister gets a quarter of the 12 cars.



a. How many cars does Tom give his brother?
b. How many cars does his sister get?
c. How many cars are given away in all?
d. How many cars does Tom keep?

## Question 10

**Question 10 – At the bakery** *(Section B · Real-life practice)*

A baker has 8 cupcakes in a tray. She sells half of them in the morning and a quarter of them in the afternoon.



a. How many cupcakes does she sell in the morning?
b. How many does she sell in the afternoon?
c. How many has she sold altogether?
d. How many cupcakes are left?

## Question 11

**Question 11 – Sharing stickers** *(Section B · Real-life practice)*

Dina has 16 stickers. She shares them equally between herself and a friend. Then her friend shares her stickers equally between herself and her sister.

a. How many stickers does each of Dina and her friend get?
b. How many stickers does the friend's sister get?
c. What fraction of the 16 stickers does the sister get?
d. Does Dina have more than her friend now?

## Question 12

**Question 12 – Reading time** *(Section B · Real-life practice)*

A storybook has 20 pages. Jo reads half of the book on Monday. She reads a quarter of the book on Tuesday.

a. How many pages does Jo read on Monday?
b. How many pages does she read on Tuesday?
c. How many pages has she read in total?
d. How many pages are left to read?

## Question 13

**Question 13 – Fair or not fair?** *(Section C · Problem solving)*

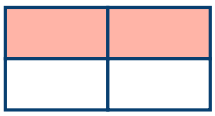
Three children cut a cake. They each say they have cut it into halves. Look at what they do and say who is right.

a. Ali cuts the cake into two equal parts.
b. Bella cuts the cake into one big part and one small part.
c. Carlos cuts the cake into four equal parts and takes two. Has he taken half?
d. Dee cuts the cake into four equal parts and takes one. What fraction does she take?

## Question 14

**Question 14 – The school flag** *(Section C · Problem solving)*

The school flag is a rectangle. It is made of 4 equal parts. Two parts are blue. One part is yellow. One part is red.



a. What fraction of the flag is blue?
b. What fraction of the flag is yellow?
c. What fraction of the flag is not blue?
d. Which fraction is bigger, the blue part or the yellow part?

## Question 15

**Question 15 – Money in the jar** *(Section C · Problem solving)*

Zak has 20 coins in a jar. He wants to share them between 4 friends so that each friend gets a quarter. He says "I give each friend 4 coins." His sister says "That is wrong."

a. How many coins does one friend get if each gets a quarter of 20?
b. Who is right, Zak or his sister?
c. What fraction of the coins do two friends get together?
d. How many coins do two friends get together?

## Question 16

**Question 16 – Fruit salad** *(Section C · Problem solving)*

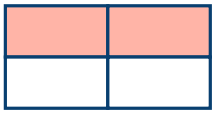
A cook cuts 4 apples in half. Then she cuts 2 oranges into quarters.

a. How many half apples does she have?
b. How many orange quarters does she have?
c. She uses all the half apples and half of the orange quarters in a fruit salad. How many pieces is that?
d. How many orange quarters are left?

## Question 17

**Question 17 – Sharing a chocolate bar** *(Section B · Real-life practice)*

A chocolate bar has 8 equal squares. Hana breaks the bar in half to share with her brother. Then she breaks her half in half again to share with her friend.



a. How many squares does her brother get?
b. How many squares are in the half that Hana keeps at first?
c. How many squares does her friend get from that half?
d. What fraction of the whole bar does Hana have at the end?

## Question 18

**Question 18 – Ribbons for the party** *(Section C · Problem solving)*

Yara has a long ribbon that is 16 centimetres long. She cuts it in half. She cuts one of the halves in half again. She says "Now I have three pieces and they are all the same length." Check what she says.

a. How long is each half of the ribbon?
b. How long is each piece of the half that is cut again?
c. List the lengths of the three pieces.
d. Is Yara right? Explain.

## Question 19

**Question 19 – Challenge: halves and quarters** *(Section D · Challenge)*

Leah has 24 beads. She makes a necklace. Half of the beads are red. A quarter of the beads are blue. The rest are yellow.

a. How many beads are red?
b. How many beads are blue?
c. How many beads are yellow?
d. What fraction of the necklace is yellow? Hint: red and blue together make three quarters.

## Question 20

**Question 20 – Challenge: paper folding** *(Section D · Challenge)*

Maya folds a long strip of paper in half. Then she folds it in half again. Then she folds it in half again.

a. After the first fold, how many equal parts are there?
b. After the second fold, how many equal parts are there?
c. After the third fold, how many equal parts are there?
d. What fraction is one part after the second fold?