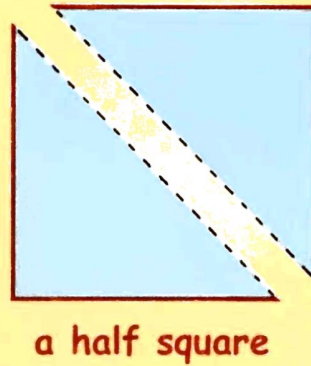
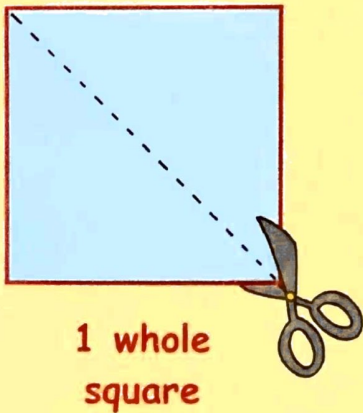


Half of Something

Recognise what is meant by a half.



If you cut a shape into **2 equal** bits, each bit is called a **half**.



a half square

A **half** is written like this :-

$$\frac{1}{2}$$

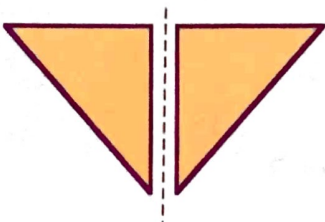
one "bit" out of two "bits"

Two **halves** put back together make one **whole**.

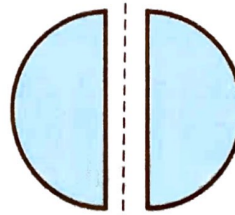
Exercise 1

1. Practice writing the **half** symbol (10 times) - $\frac{1}{2}$.

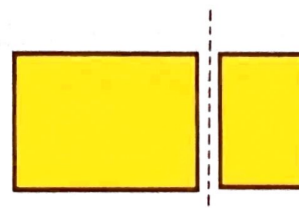
2. a Has this triangle been cut in **half** ?



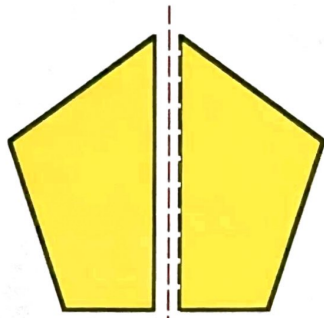
b Has this circle been cut in **half** ?



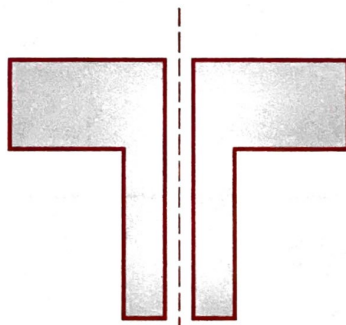
c Has this rectangle been cut in **half** ?



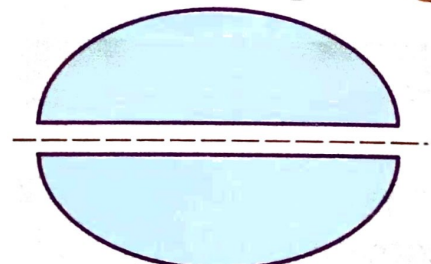
3. Which of these shapes have been cut **exactly** in half? (Yes or No).



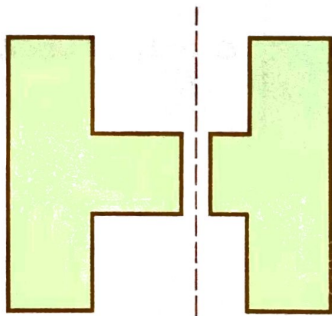
shape A



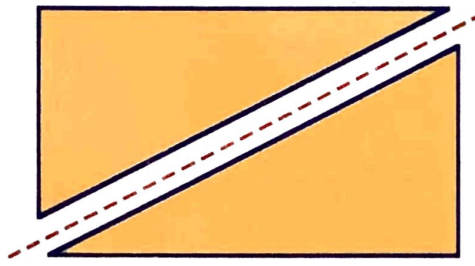
shape B



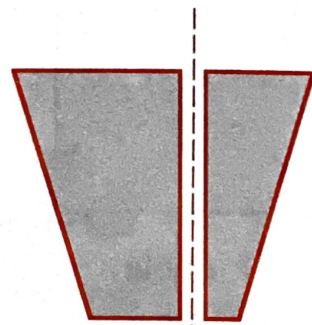
shape C



shape D



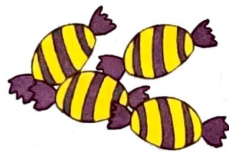
shape E



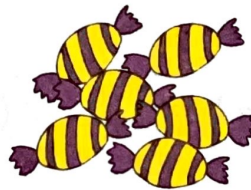
shape F

Worksheet 16.1

4. Tim and Lorna had **10** sweets. They tried to share them equally.



Tim's sweets

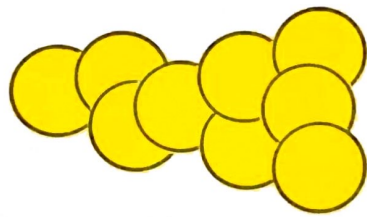


Lorna's sweets



- Did they each get **exactly half** of the sweets?
- How many sweets should each of them have?
- How many should Lorna give to Tim so they do have $\frac{1}{2}$ each?

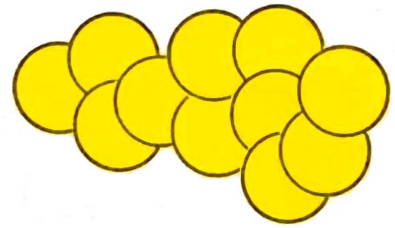
5. Andy shared these 20 yellow counters with his friend James.



Andy



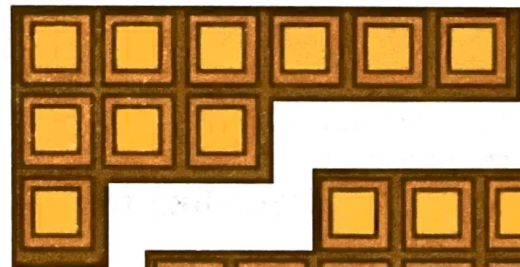
James



- a Did both boys get exactly **half** the counters each ?
 b How many **more** did James get than Andy ?

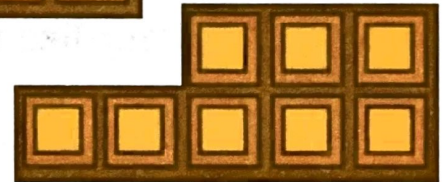
6. Ari and Bree broke a bar of chocolate into 2 pieces.

Bree



- a Did both Ari and Bree get **exactly half** each ?

- b How many **more** squares did Bree get than Ari ?



Ari

7. Julie and Janice have a bag of 12 balloons. They each get exactly **half** of the balloons. How many balloons did each girl get ?



8. Bob and Bill have a box of 14 toy cars. They each get **half** of the cars. How many cars does Bill have ?



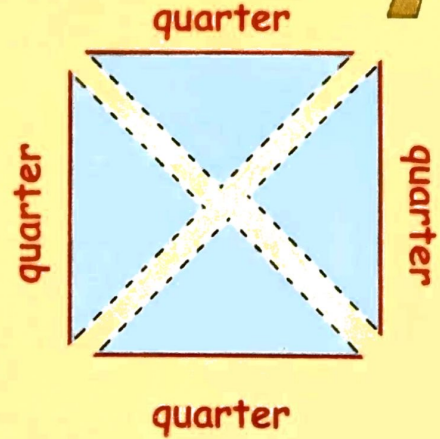
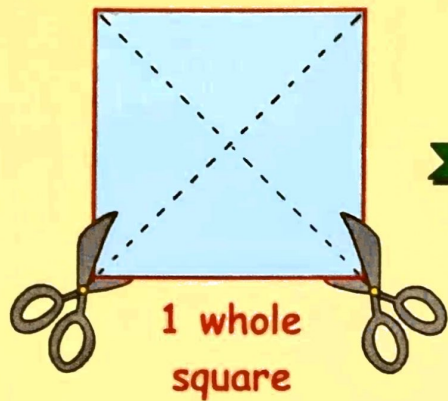
9. A bag has sixteen marbles. Sadie is given **half** of them. How many marbles are left in the box ?



Quarter of Something

Recognise what is meant by a quarter.

If you cut a shape into **4 equal** bits, each bit is called a **quarter**.



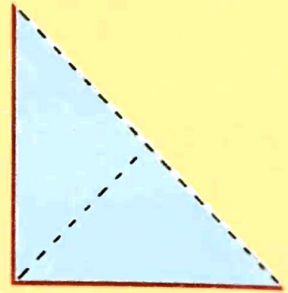
A **quarter** is written like this :-



one "bit" out of 4 "bits"

Four **quarters** put back together make a **whole**.

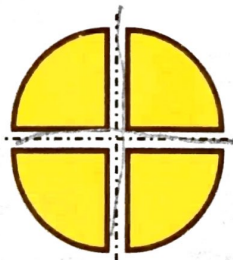
Two **quarters** put together make a **half**.



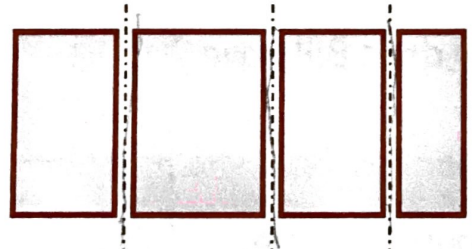
Exercise 2

1. Practice writing the **quarter** symbol (10 times) - $\frac{1}{4}$.

2. Has this circle been cut into **quarters** ?

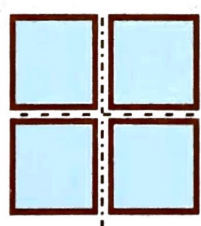


3.

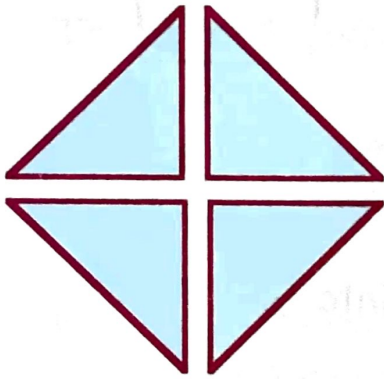


Has this rectangle been cut into $\frac{1}{4}$'s ?

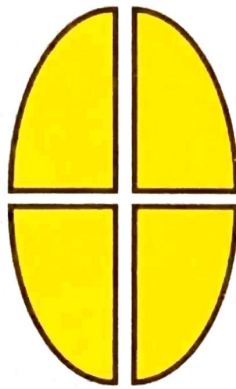
4. Has this square been cut into $\frac{1}{4}$'s ?



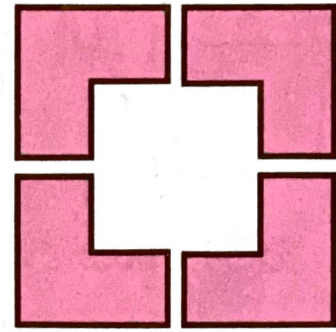
5. Which of these have been cut **exactly** into **quarters**? (Yes or No).



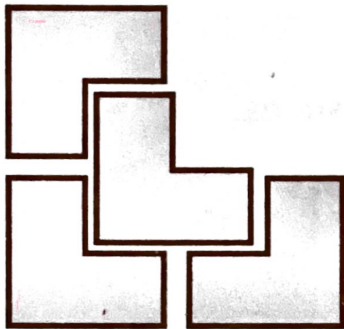
shape A



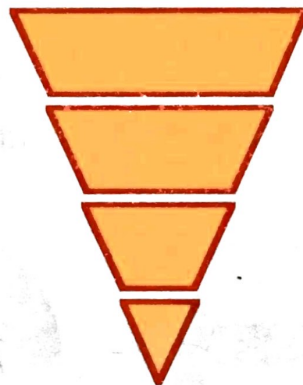
shape B



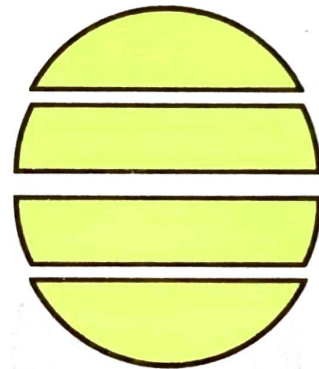
shape C



shape D



shape E



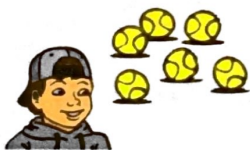
shape F

Worksheet 16.3

6. Jenny cut her birthday cake into 4 equal slices.
Timmy ate one of the slices.
What **fraction** did Timmy eat?



7. Bobby, Jane, Nick and Ming share some tennis balls.



Bobby



Jane



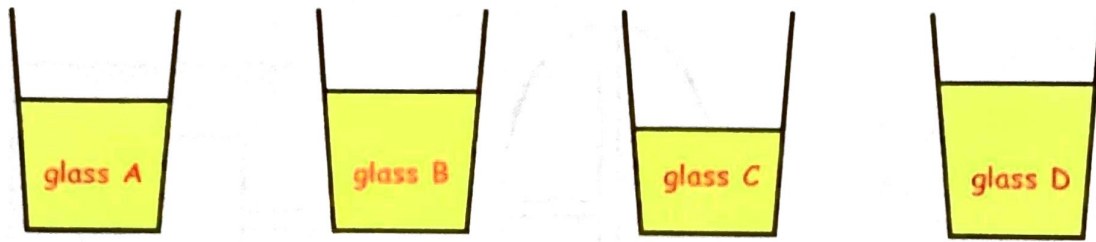
Nick



Ming

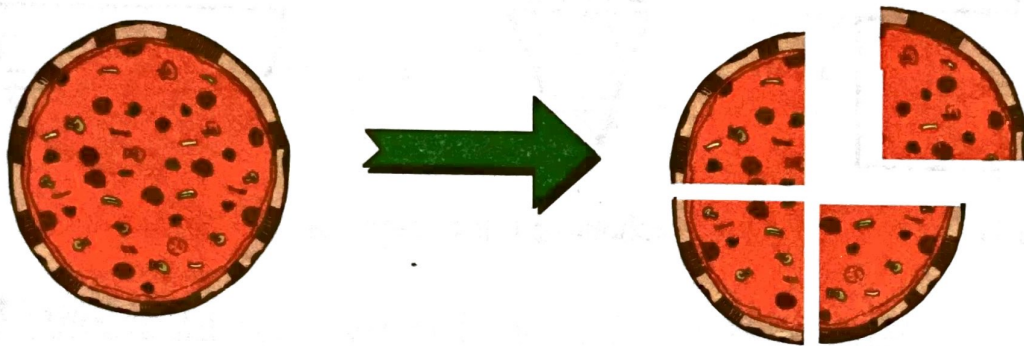
- Did each of them get a **quarter** of the balls?
- Who got **most**?
- Who got **least**?

8. Mr Doak emptied a carton of limeade into 4 glasses.



- Did he pour exactly a **quarter** of the limeade into each glass?
- Which glass held **most**?
- Which glass held **least**?

9. Mrs Hutton cut this pizza into **exactly** four equal slices.



- What **fraction** is each slice called?

Tommy ate **two** of the pizza slices.

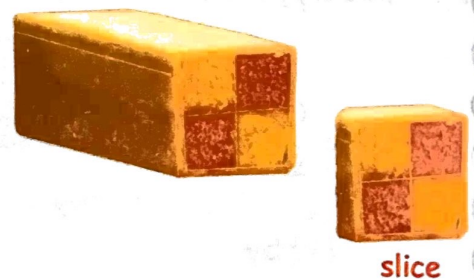
- What **fraction** had Tommy eaten?



10. This is a picture of a Battenburg Cake.

A slice has been cut off.

The slice has 4 pieces, two **pink** and 2 **yellow**.



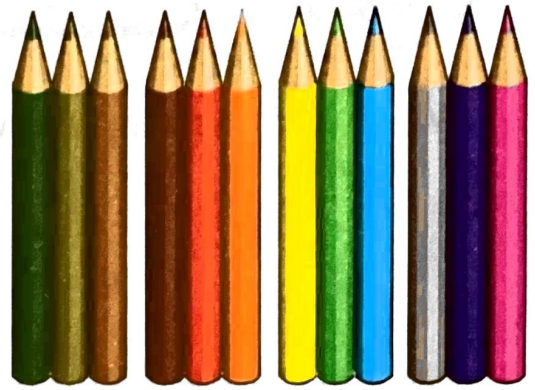
- What **fraction** of the slice is 1 **pink** piece?
- What fraction of the slice is **two pink** pieces?

Exercise 3

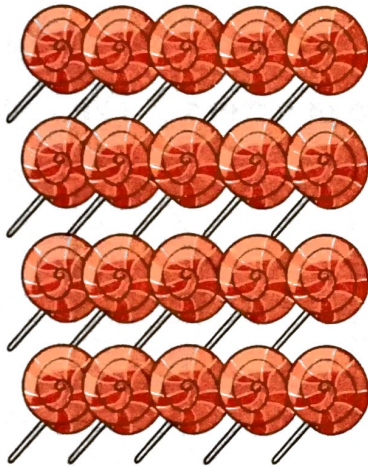
Mixed Exercise on a half and a quarter.

1. There are 12 pencils in a packet.

- a How many pencils would I have if I took **half** of them ?
- b How many pencils would I have if I took a **quarter** of them ?



2.

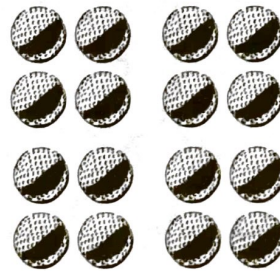


There are twenty lollipops in a box.

- a How many lollipops would I have if I took **half** of them ?
- b How many lollipops would I have if I took a **quarter** of them ?

3. There are 16 golf balls in a bucket.

- a How many balls would I have if I took **half** of them ?
- b How many balls would I have if I took a **quarter** of them ?



4. a What is a **half** of 6 ?

b What is a **half** of 14 ?

c What is a **half** of 40 ?

d What is a **half** of 100 ?

5. a What is a **quarter** of 8 ?

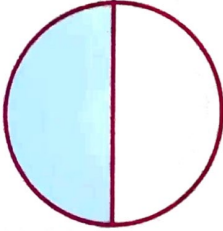
b What is a **quarter** of 12 ?

c What is a **quarter** of 40 ?

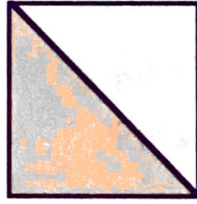
d What is a **quarter** of 100 ?

1. Which of these shapes have been split in **half**? (Yes or No).

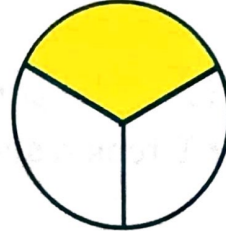
a



b

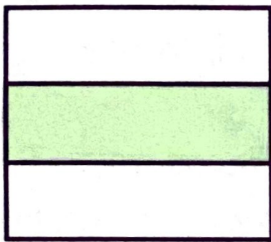


c

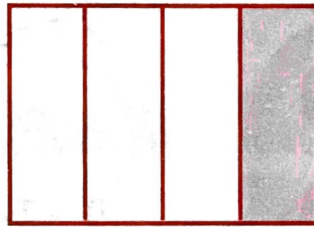


2. Which of these shapes have been split into **quarters**? (Yes or No).

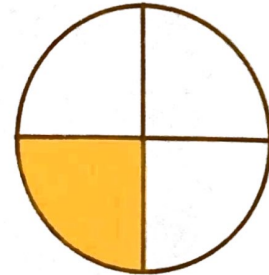
a



b



c



3.



There are 10 pins in a box.
Mr. Darcy took **half** of the pins.
How many pins did he take?

4. Pete has 16 one pence coins.
He gives a **quarter** of them to Simon.

How many coins does Pete **now have**?



5.



Addison has 20 sports tops.
A **quarter** of them are football tops.
How many are **NOT** football tops?