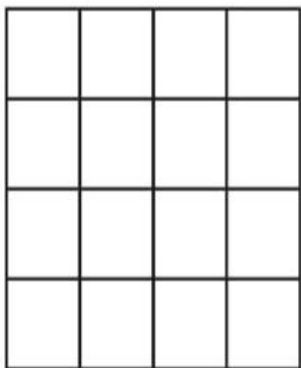# Look Back

Colour half the squares yellow. Colour one quarter of the squares red.

What do you notice about the number of squares in halves and in quarters? The number of squares in a quarter of the grid is half of the number of squares in a half of the grid.
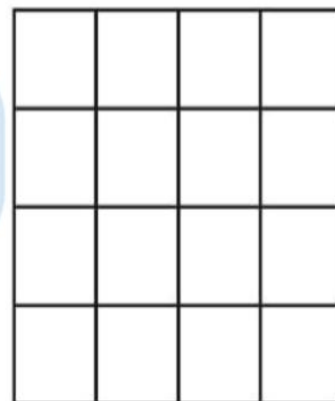
Did you colour the same number of squares as your partner?

Thinking Cap

Without colouring, how can you find out $\frac{1}{4}$ of the squares above?
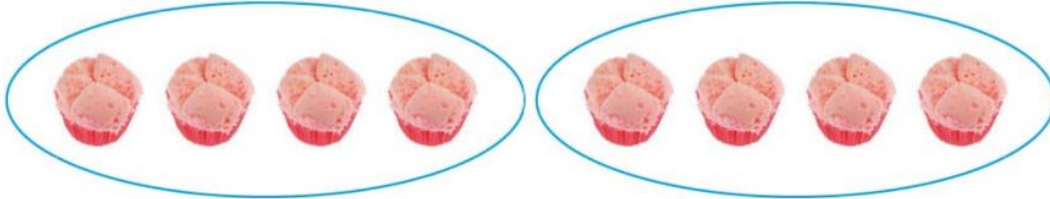Discuss with your partner.

- If we divide the grid into four equal parts, what is one part? $\frac{1}{4}$
- How many squares are there in one part? 4
- Is dividing by 2 the same as finding half? Yes
- Is dividing by 4 the same as finding a quarter? Yes

Let's Learn

a Rhea has 8 cakes.

She gives $\frac{1}{2}$ of them to her brother.

First way

Divide the cakes into 2 equal groups.

There are 4 cakes in 1 out of the 2 equal groups.

$\frac{1}{2}$ of the cakes is 4 cakes.
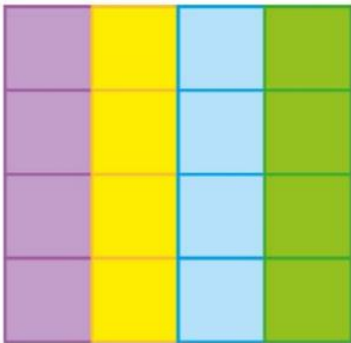
Second way

There are 8 cakes.

There are 2 groups.

You can divide by 2 to find $\frac{1}{2}$ of a set.

$8 \div 2 = 4$

Each group has 4 cakes.

She gives her brother ____4____ cakes.

b How many squares are there in $\frac{1}{4}$ of the shape below?

$\frac{1}{4}$ of 16 = 16 ÷ 4

= ____4____

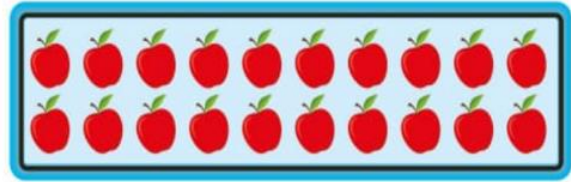There are ____4____ squares in $\frac{1}{4}$ of the shape.

You can find quarters by dividing by 2 two times.

Finding $\frac{1}{4}$ of 16 squares is the same as dividing 16 by 4

Let's Practise

1 A basket has 20 apples.

Siti takes $\frac{1}{2}$ of the apples.

$\frac{1}{2}$ of 20 = __20__ ÷ __2__

= __10__

How many apples does Siti take? __10__

2 Eddy has 16 buns.

He gives $\frac{1}{4}$ of the buns to his father.

How many buns does he have left? __12 buns__

He gives his father :

$\frac{1}{4}$ of 16 = 16 ÷ 4 = 4 buns

Eddy has "16 - 4 = 12 " buns left.

3 Raj has some tiles.

He uses $\frac{1}{2}$ of the tiles for his garden and $\frac{1}{4}$ of the tiles for his room.

He has 10 tiles left.

This is $\frac{1}{4}$ of the tiles he had at first.

a How many tiles does Raj have at first? __40 tiles__

b How many more tiles does he use for the garden than the room? __10 tiles__   [$\frac{1}{4}$ of the tiles]