

Look Back

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$\frac{1}{2}$

half of 20 → 20 divided into 2 equal groups

$$\text{half of } 20 = 20 \div 2 = 10$$

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half of
the half
is a
quarter

Thinking Cap

 If there are four groups of children, each group gets a quarter of the balls. How can you find a quarter of 20?



$$\frac{1}{4} \text{ of } 20$$

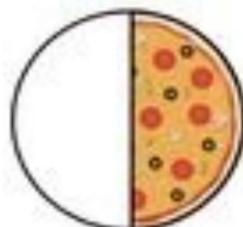
Split the 20 balls into 4 equal groups. $20 \div 4 = 5$

One quarter of 20 is 5.

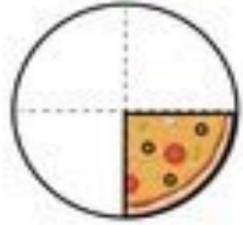
half of
the half
is a
quarter



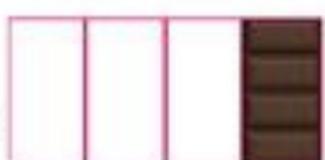
1 WHOLE



1 HALF



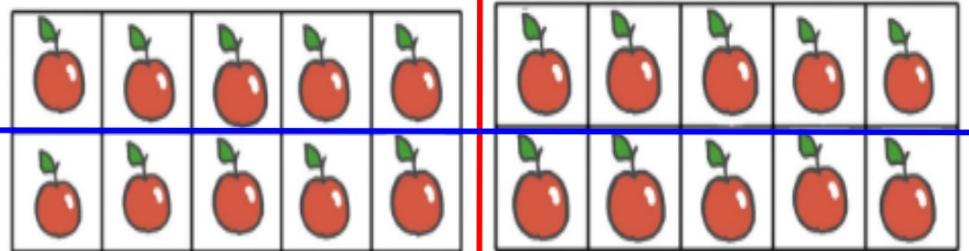
1 QUARTER



Half of 20 is 10

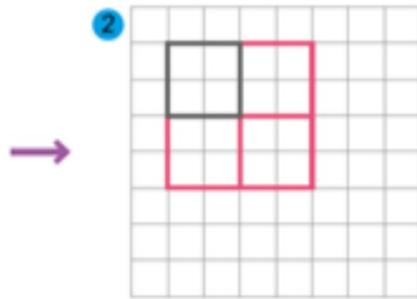
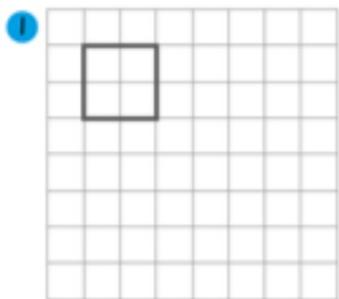
Half of 10 is 5

so we can say
a quarter of 20 is 5



Let's Learn

The grid shows $\frac{1}{4}$ of a shape. What can the shape be?



$\frac{1}{4}$ means 1 out of 4 equal parts.

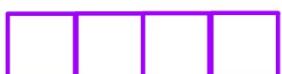
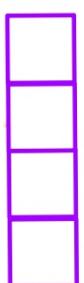
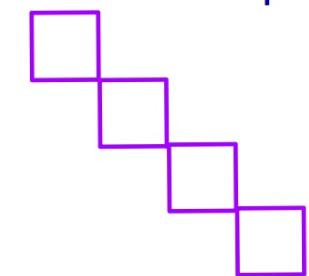
The shape can be a

Draw more squares to make 4 equal parts.

What other shapes can it be?



The shape can be a rectangle with 4 squares identical to the black square arranged in a row.



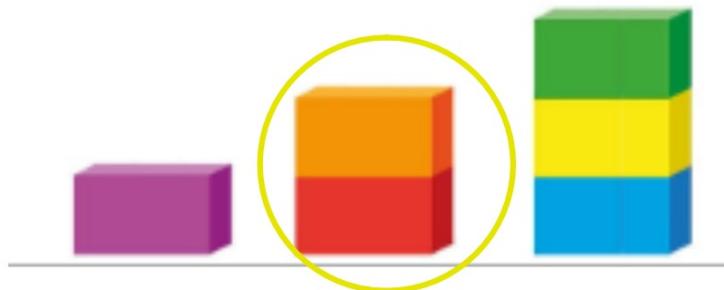
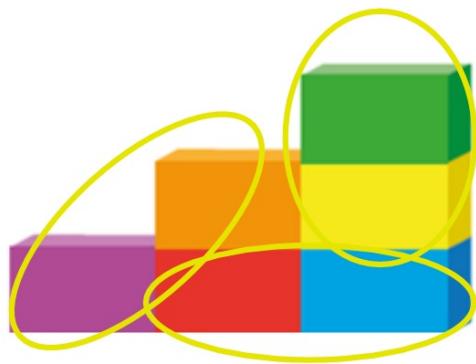
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Leo puts some building blocks together.

He removes $\frac{1}{4}$ of the blocks.

The remaining blocks are shown on the right.

Circle the blocks removed.



c Meilin has 4 pots.



She puts $\frac{1}{4}$ of 20 flowers in each pot.

Divide the flowers
into 4 equal groups.



There are 5 flowers in each pot.

$$20 \text{ divided equally into } 4 \text{ pots} = 20 \div 4 = 5$$

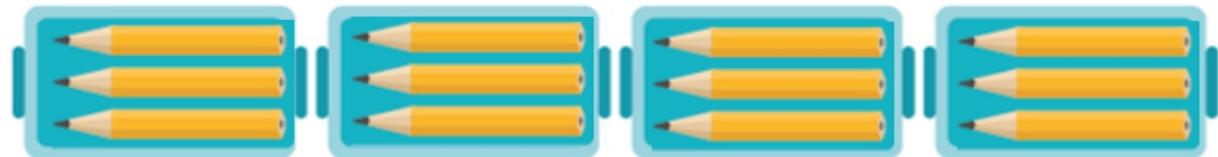
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this is only
1 group out
of 4 groups
in total

The picture shows $\frac{1}{4}$ of pencils that Yixin has.

How many pencils does she have in total?

$\frac{1}{4}$ means 1 out of 4 equal parts.



Draw more sets to make 4 equal parts.

She has **12** pencils in total.



Let's Practise

I What is $\frac{1}{4}$ of 12? _____

put 12 equally into 4 groups
 $12 \div 4 = 3$ in each group

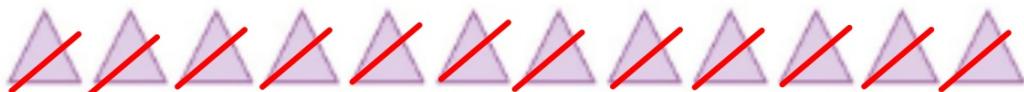
Draw circles around the triangles to help you.



Let's Practise

I What is $\frac{1}{4}$ of 12? 3

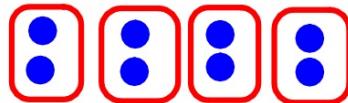
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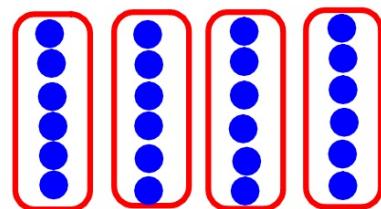
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2 Find $\frac{1}{4}$ of:

a 8 2



b 24 6



3 The picture shows $\frac{1}{4}$ of Shanti's crayons.

How many crayons does she have in total? 24

this is only 1 group



we need to draw 3 more groups inside them
the same number of crayons

answer



3 The picture shows $\frac{1}{4}$ of Shanti's crayons.

How many crayons does she have in total? 24



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4 Hana uses $\frac{1}{4}$ of a pack of buttons.

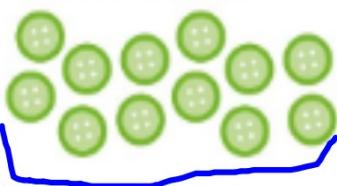
The picture shows the buttons left in the pack.

How many buttons are in the pack at first?

Hana solves the problem by increasing one button each time to see if the buttons can form 4 groups.

Suggest how she can solve the problem more quickly.

left
12 buttons



used

$$\frac{3}{4}$$

put the 12 buttons that remain into 3 equal groups

