

Halves are two equal parts.

I Circle two equal halves.

a

is half of 8.

b

is half of

c

is half of

d

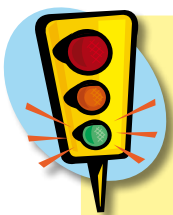
is half of

e

is half of

f

is half of



## Challenge!

28 in a class.  
Half are girls.

How many boys?

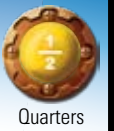
Half of the girls  
have black hair.

How many girls have black hair?

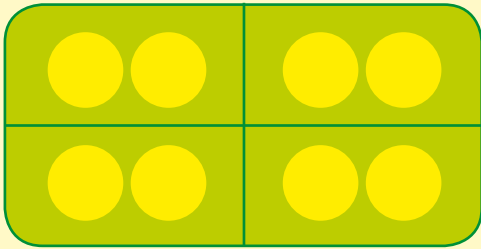




Quarters are four equal parts.

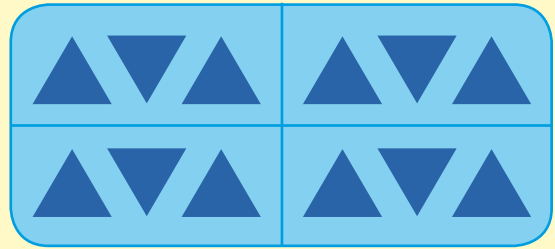


1



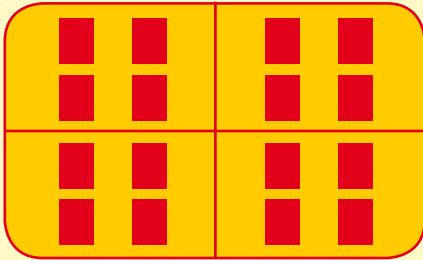
one quarter of 8 is

2



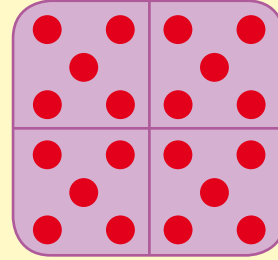
one quarter of 12 is

3



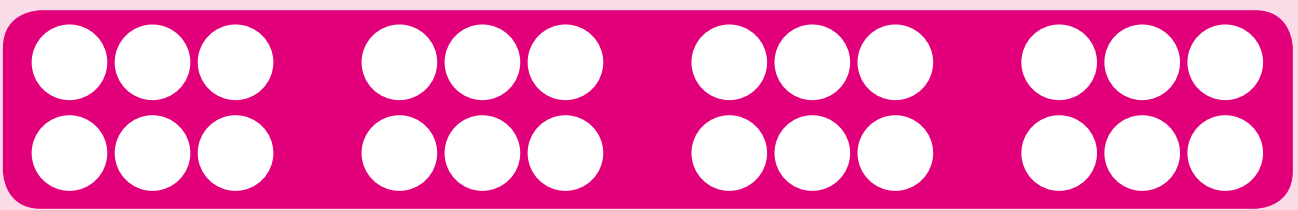
one quarter of  is

4



one quarter of  is

5



one quarter of  is

6 Use counters.

$\frac{1}{4} =$  one quarter

a  $\frac{1}{4}$  of 4 =

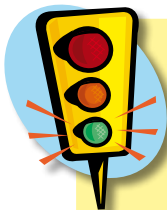
b  $\frac{1}{4}$  of 8 =

c  $\frac{1}{4}$  of 12 =

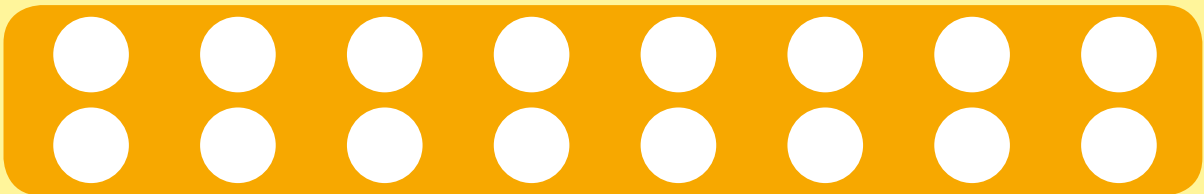
d  $\frac{1}{4}$  of 16 =

e  $\frac{1}{4}$  of 20 =

f  $\frac{1}{4}$  of 24 =



**Challenge!** Colour  $\frac{1}{4}$  red,  $\frac{1}{4}$  blue,  $\frac{1}{2}$  yellow.



# Halves and quarters



1 Divide each group into halves. Circle 2 equal groups.

a Jess had 4 balloons.  
She gave half to Alex.  
Jess gave Alex  
 balloons.



b George had 8 cars.  
He gave half to Ross.  
George gave Ross  
 cars.



c Katy had 12 cherries.  
She gave half to Jarrah.  
Katy gave Jarrah  
 cherries.



d Lee had 10 pencils.  
He gave half to Adam.  
Lee gave Adam  
 pencils.



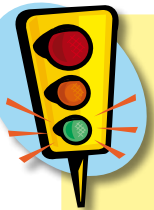
2

a Mel had 8 marbles.  
She lost a quarter of them.  
How many did she lose?   
How many left?

b Ravi had 12 pencils.  
A quarter of them broke.  
How many broke?   
How many left?

c Tan had 16 cards.  
He gave Ned a quarter of them.  
How many did Ned get?   
How many did Tan keep?

d Mia had 20 lollies.  
She gave Li a quarter of them.  
How many did Li get?   
How many did Mia keep?



**Challenge!** Draw a diagram. There are 24 children.

How many apples and oranges do they need?

Each child will be given 1 piece  
of apple and 1 piece of orange.

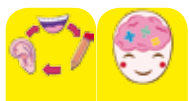
How many whole apples?

How many whole oranges?



Oranges are cut  
into quarters.

Apples are cut  
into halves.



# Eighths

Eighths are 8 equal parts.

1	2	3	4
5	6	7	8

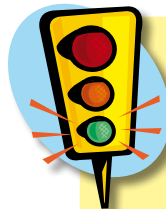


1 Circle one eighth of each group.

<p>a</p> <p><math>\frac{1}{8}</math> of 8 is <input type="text"/></p>	<p>b</p> <p><math>\frac{1}{8}</math> of 16 is <input type="text"/></p>
<p>c</p> <p><math>\frac{1}{8}</math> of <input type="text"/> is <input type="text"/></p>	<p>d</p> <p><math>\frac{1}{8}</math> of <input type="text"/> is <input type="text"/></p>
<p>e</p> <p><math>\frac{1}{8}</math> of <input type="text"/> is <input type="text"/></p>	<p>f</p> <p><math>\frac{1}{8}</math> of <input type="text"/> is <input type="text"/></p>

2 Colour each one  $\frac{1}{2}$  red,  $\frac{1}{4}$  blue,  $\frac{1}{8}$  yellow.

<p>a</p>	<p>b</p>	<p>c</p>
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**Challenge!** Colour each one  $\frac{1}{2}$  blue,  $\frac{1}{4}$  green,  $\frac{1}{8}$  red.  
Make each one different.

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