

Contents – Fractions and decimals

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Fair shares

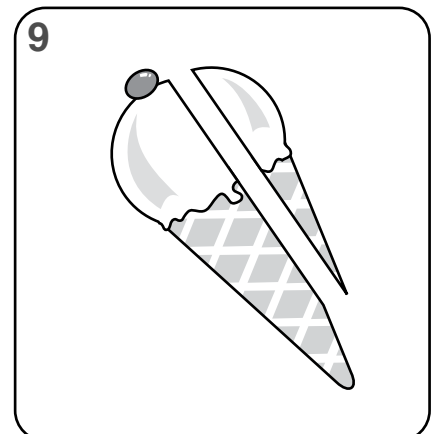
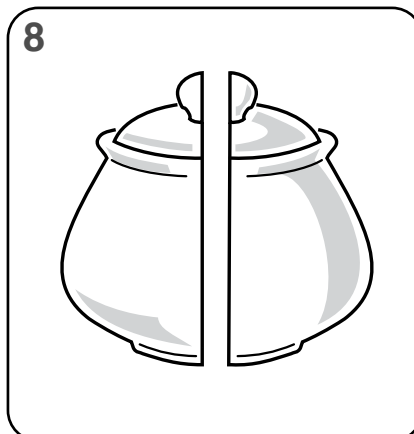
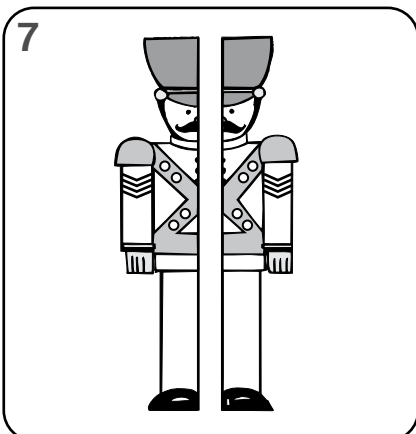
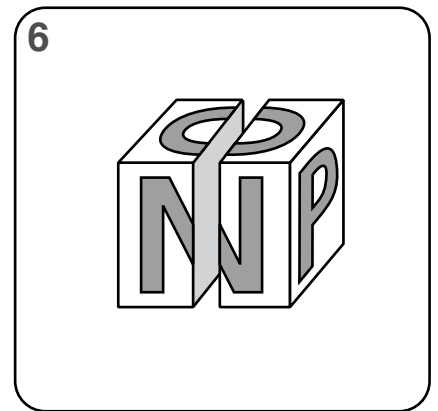
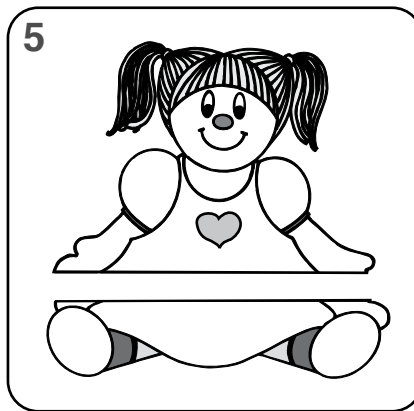
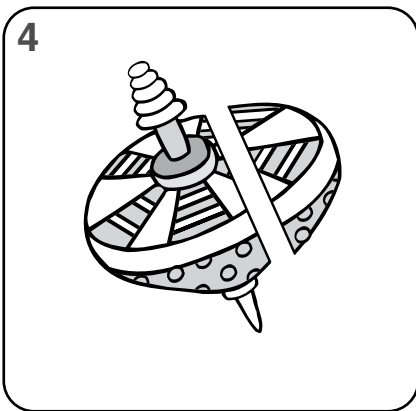
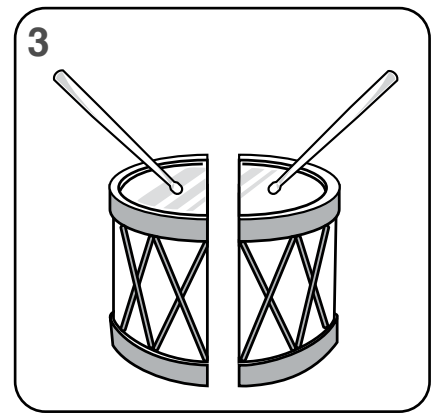
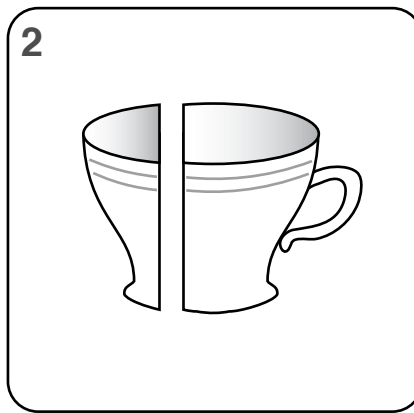
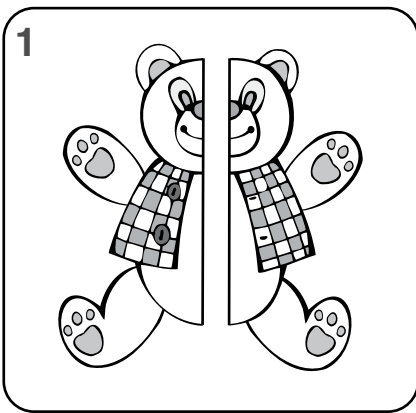


That's not a fair share!
One person gets more
than half.

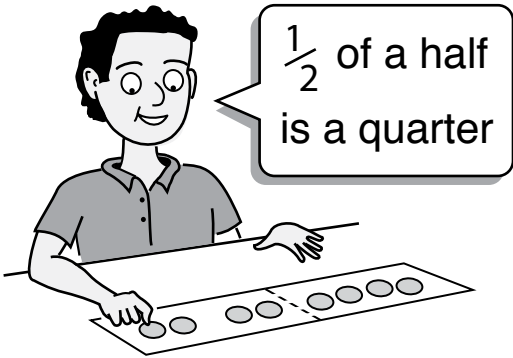
A half means
two **equal** parts.



Only colour the objects that have been cut into halves.



Halves and quarters



What is $\frac{1}{4}$ of 8?

one quarter

$\frac{1}{2}$ of 8 is 4 and $\frac{1}{2}$ of 4 is 2

1 $\frac{1}{2}$ of 8 = _____

2 $\frac{1}{4}$ of 8 = _____

3 $\frac{1}{2}$ of 16 = _____

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

5 $\frac{1}{2}$ of 20 = _____

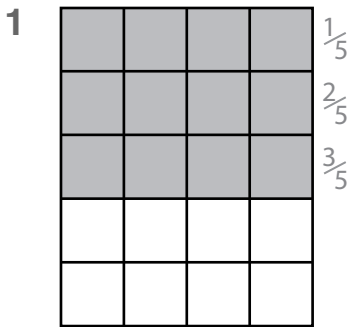
6 $\frac{1}{4}$ of 20 = _____

7 $\frac{1}{2}$ of 12 = _____

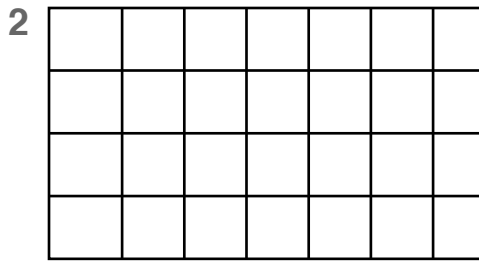
8 $\frac{1}{4}$ of 12 = _____

Fractional blocks

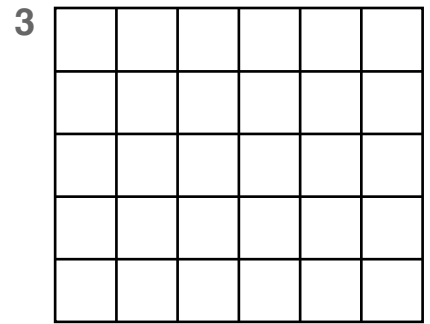
Colour the fraction of each grid by colouring the right number of squares. The first one is done for you.



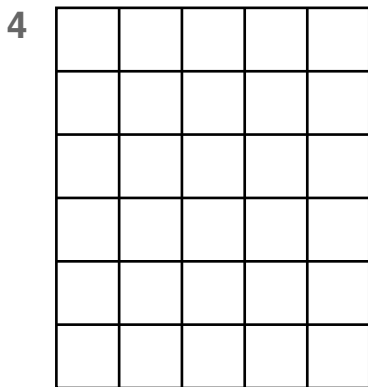
$$\frac{3}{5} \text{ of } 20 = \boxed{12}$$



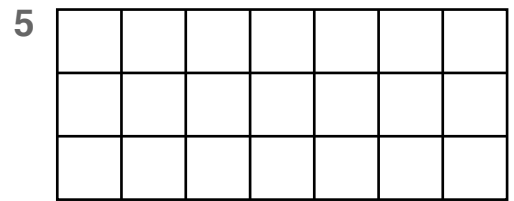
$$\frac{3}{4} \text{ of } 28 = \boxed{}$$



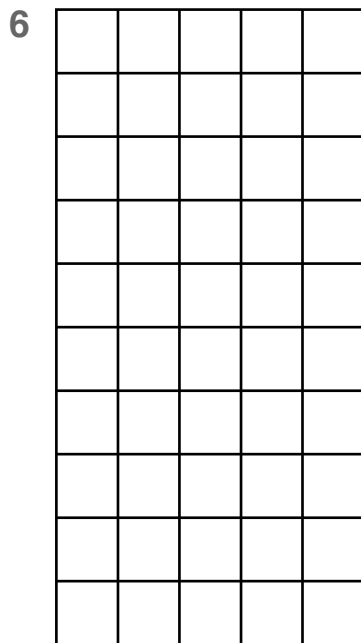
$$\frac{4}{5} \text{ of } 30 = \boxed{}$$



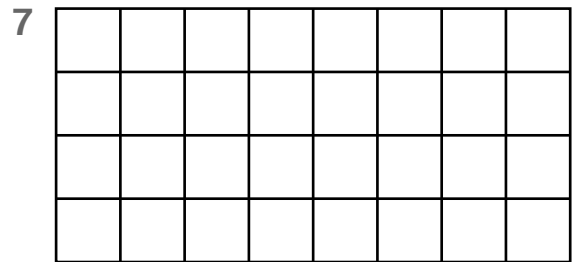
$$\frac{5}{6} \text{ of } 30 = \boxed{}$$



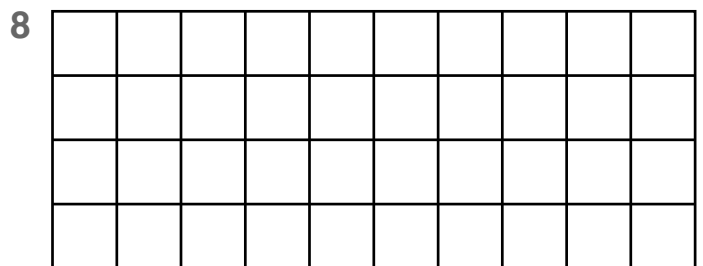
$$\frac{2}{3} \text{ of } 21 = \boxed{}$$



$$\frac{7}{10} \text{ of } 50 = \boxed{}$$



$$\frac{3}{4} \text{ of } 32 = \boxed{}$$



$$\frac{3}{4} \text{ of } 40 = \boxed{}$$

Reading decimal fractions

Any fraction of 100 can be written as a decimal.

In decimal form $\frac{67}{100}$ would look like this $\rightarrow 0.67$

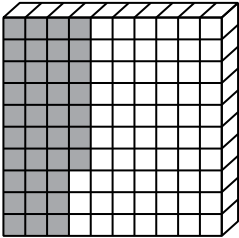
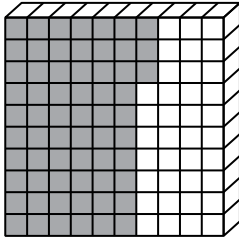
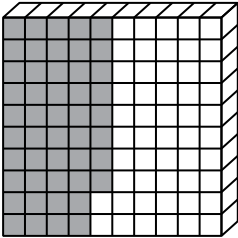
The decimal point separates whole numbers from fractional parts.

For example, 5.32
 5 wholes \swarrow \nwarrow 32 hundredths

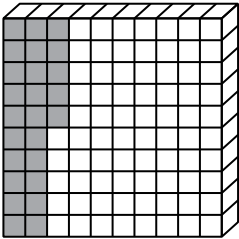
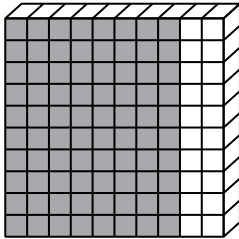
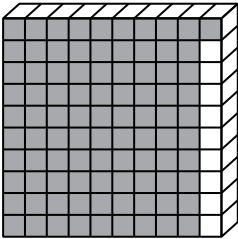
The grids below are divided into 100 equal parts.

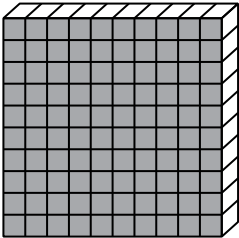
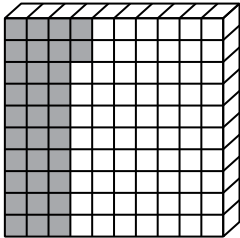
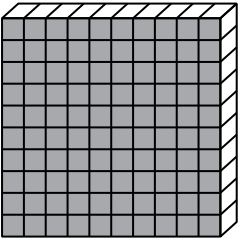
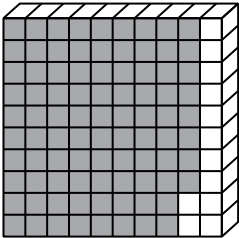
A fraction of the whole has been coloured in.

Use a fraction and a decimal to label them. The first one is done for you.

1   

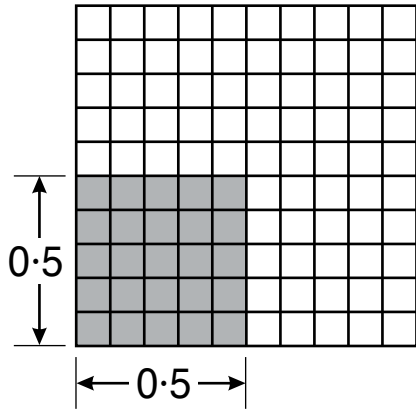
$\frac{37}{100}$ 0.37 $\frac{\quad}{100}$ $_ \cdot _ _$

4   

7    

Multiplying decimals

One way of finding half of a half is to fold paper.
Another way is to multiply **0.5** by **0.5**.



The number of decimal places in the product is equal to the sum of the number of decimal places in the numbers being multiplied.

$$0.5 \times 0.5 = 0.25$$

one decimal place one decimal place 2 decimal places

Complete these multiplications. Some have been done for you.

	whole number x decimal
1	$8 \times 0.4 = 3.2$
2	$9 \times 0.3 =$
3	$7 \times 0.5 =$
4	$6 \times 0.6 =$
5	$5 \times 0.9 =$
6	$9 \times 0.4 =$
7	$3 \times 0.7 =$
8	$8 \times 0.5 =$
9	$7 \times 0.8 =$
10	$10 \times 0.8 =$

	decimal x decimal
11	$0.5 \times 0.9 = 0.45$
12	$0.6 \times 0.5 =$
13	$0.8 \times 0.3 =$
14	$0.4 \times 0.4 =$
15	$0.8 \times 0.2 =$
16	$1.2 \times 0.5 = 0.6$
17	$1.4 \times 0.2 =$
18	$2.4 \times 0.5 =$
19	$3.6 \times 0.2 =$
20	$1.5 \times 0.2 =$

We can write 0.60 as 0.6, without the final zero.

