

Diving into Mastery



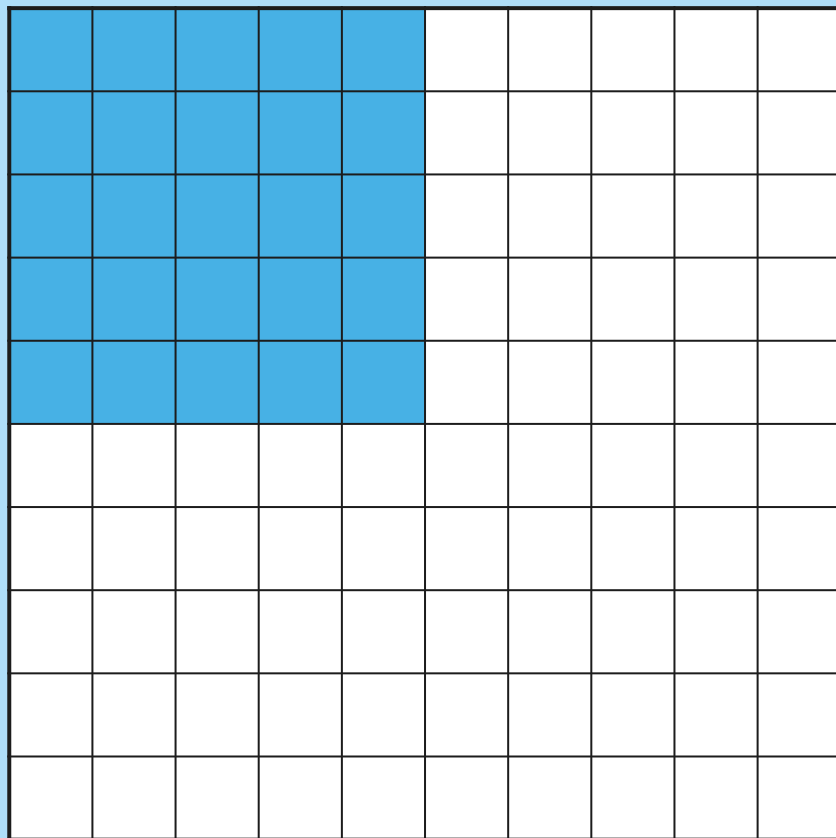
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# Halves and Quarters

# Aim

- Recognise and write decimal equivalents to  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ .



How many of the small squares of this 100 square are shaded?

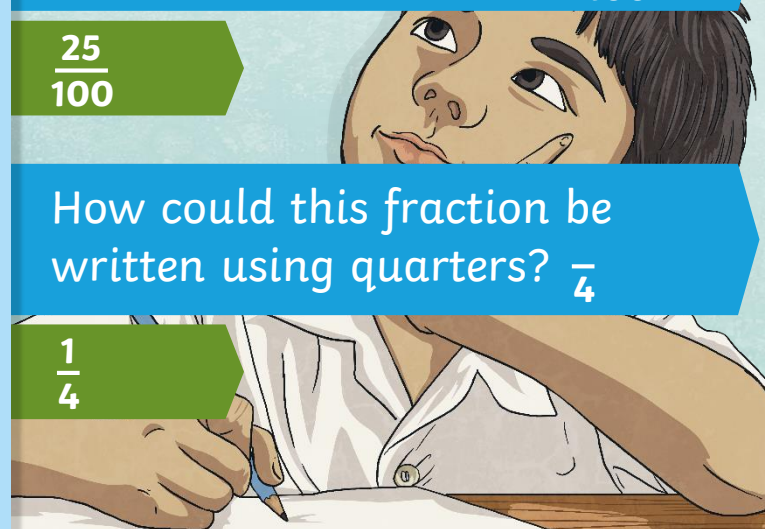
25 small squares.

How do we write this as a fraction of a hundredth?  $\frac{\quad}{100}$

$\frac{25}{100}$

How could this fraction be written using quarters?  $\frac{\quad}{4}$

$\frac{1}{4}$



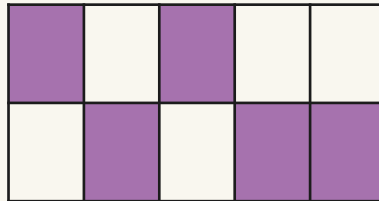
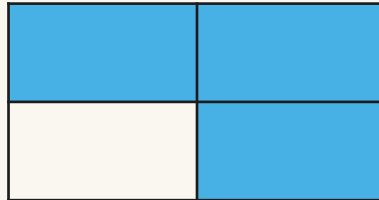


Match each fraction and decimal card to the correct shape.

$$\frac{1}{4}$$

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

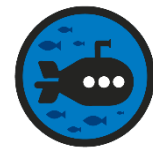
$$\frac{1}{2}$$



0.75

0.25

0.5



Do you agree with Peter or Steffi?  
Explain how you know.

Peter

I walk home and my journey is 0.75km so I have the longer journey.

Steffi

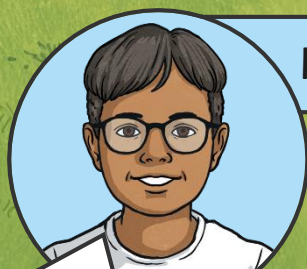
I walk home and my journey is half of a kilometre so I have the longer journey.

**Peter is correct.**

If we change the fraction that Steffi walked into a decimal, it is 0.5km. Because 0.75km is greater than 0.5km, Peter walked further.



Three friends are comparing the lengths of their skipping ropes.



Parminder

My rope is  $\frac{1}{2}$   
of 7m.



Suman

My rope measures  
0.75 of 7m.



Lucas

My rope measures  
a quarter of 7m.

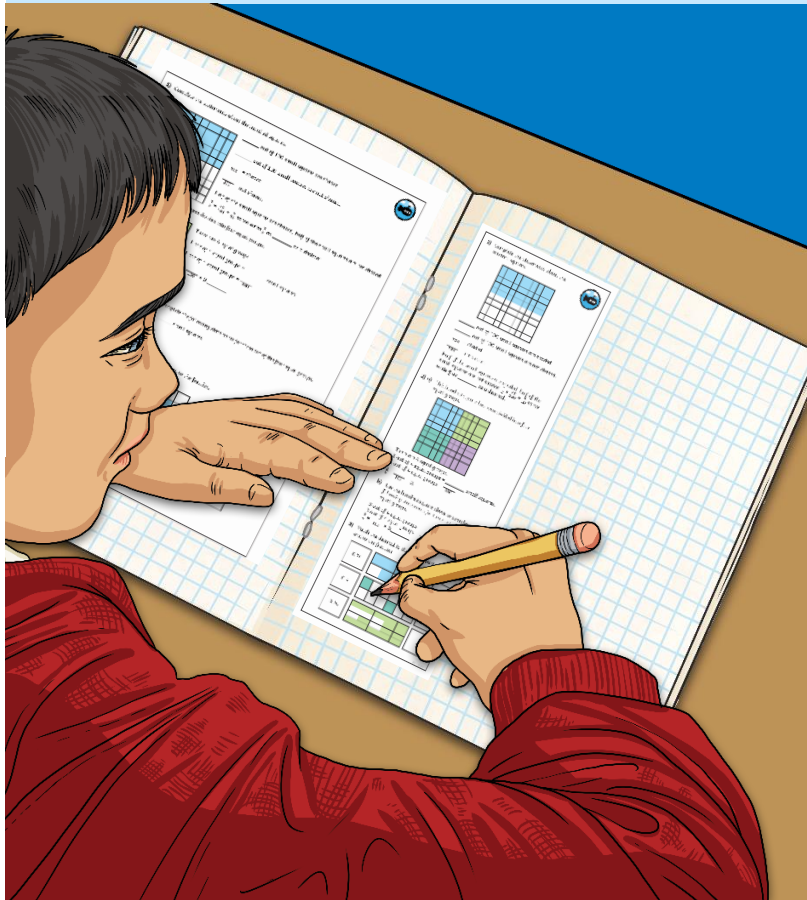
As all three children compare their skipping rope to one of 7m, we do not need to calculate the exact length of each child's skipping rope. Instead, we can look at the fractions and decimals to order the children's ropes. Parminder's rope is  $\frac{1}{2}$  or **0.5** of 7m. Lucas's rope is  $\frac{1}{4}$  or **0.25** of 7m and Suman's rope is  $\frac{3}{4}$  or **0.75** of 7m.

**Therefore, the order is:**

**Lucas's rope, Parminder's rope and then Suman's rope.**

# Halves and Quarters

Dive in by completing your own activity!



1) Any fraction is this size of your rectangle

2) Which of these are written as fractions? Write them in the boxes below.

3) Complete the statements about the hundred squares.

\_\_\_\_\_ out of 100 small squares are shaded.  
 \_\_\_\_\_ out of 100 small squares are not shaded.  
 $\frac{\quad}{100}$  = shaded  
 $\frac{\quad}{100}$  = not shaded  
 Half of the small squares are shaded, half of the small squares are not shaded.  
 $\frac{1}{2} = \frac{50}{100} = \frac{5}{10}$  so we write  $\frac{1}{2}$  as \_\_\_\_\_ as a decimal.

2) a) This hundred square has been divided into four equal groups.

There are 4 equal groups.  
 1 out of 4 equal groups = \_\_\_\_\_ small squares.  
 1 out of 4 equal groups =  $\frac{1}{100}$   
 $\frac{1}{4} = \frac{\quad}{100} = 0.\quad$

b) Use the hundred square above to complete the following statements for three out of the four equal groups.

3 out of 4 equal groups = \_\_\_\_\_ small squares.  
 3 out of 4 equal groups =  $\frac{3}{100}$   
 $\frac{3}{4} = \frac{\quad}{100} = 0.\quad$

3) Match the decimal to the shaded part of the shape and to the fraction.

0.75		$\frac{1}{4}$
0.5		$\frac{3}{4}$
0.25		$\frac{1}{2}$

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# Need Planning to Complement this Resource?

## National Curriculum Aim

Recognise and write decimal equivalents to  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ .

For more planning resources to support this aim, [click here](#).

The collage features several educational resources:

- Match It:** A matching activity where students pair fractions (e.g.,  $3 \div 4$ ,  $3/4$ ,  $1 \div 2$ ,  $1/4$ ) with their decimal equivalents (e.g., 0.25, 0.75, 0.5, 0.125).
- Halves and Quarters:** A video resource, indicated by a play button icon.
- Decimal Tenth and Hundredths:** A matching activity for decimal fractions, showing pairs like  $3/100 = 0.3$ ,  $7/100 = 0.77$ , etc.
- Fractions: Halves and Quarters:** A worksheet with a table for recording answers and a 'Plan Learning' section.
- Investi:** A grid for an investigation.
- Dienes Cut-Outs:** A grid for a hands-on activity.

Twinkl PlanIt is our award-winning scheme of work with over 4000 resources.





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