Name _____ Date _____

Counting in tenths

Ten equal parts make a whole. Each part is one tenth.

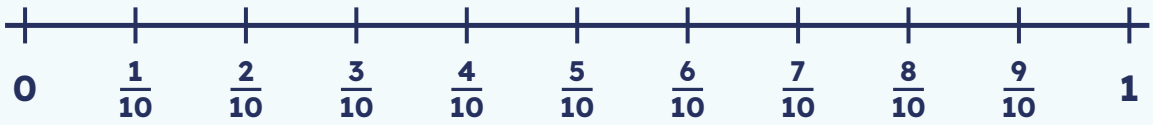
1 Learn



Snap a bar into **10 equal pieces**. Each piece is **one tenth**, $\frac{1}{10}$.
Ten tenths make one whole.



1 piece = $\frac{1}{10}$ of the bar



Worked example: find $\frac{1}{10}$ of 30 buns

1. To find one tenth, share the 30 buns into **10 equal groups**.
2. Each group has **3** buns. So $\frac{1}{10}$ of 30 = **3**, the same as 30 ÷ 10.



Flip's tip: counting **up** goes along the line towards 1. Counting **down** goes back towards 0: $\frac{7}{10}$, $\frac{6}{10}$, $\frac{5}{10}$…

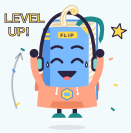
Warm up: count up, then count down.

$\frac{3}{10}$, $\frac{4}{10}$, $\frac{\square}{10}$, $\frac{\square}{10}$ $\quad$ $\frac{9}{10}$, $\frac{8}{10}$, $\frac{\square}{10}$, $\frac{\square}{10}$

Grown-ups: count aloud together: "one tenth, two tenths, three tenths…". When you reach ten tenths, say "one whole".

Name _____ Date _____

2 Try it together a child and a grown-up, about 10 minutes



Ten piles

You need: a big handful of small things (dried pasta, buttons or dried beans), and 10 cups, bowls or pieces of paper to make piles on.

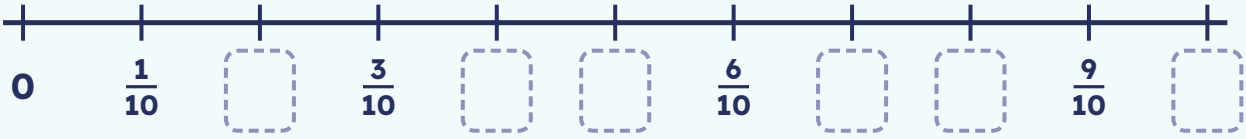
1. Put 10 things in a row. That's one whole. Each one is $\frac{1}{10}$. Count along: one tenth, two tenths… ten tenths.
2. Take them away one at a time, counting **down** in tenths.
3. Now count out **20** things. Share them fairly into the 10 piles. How many in each pile? That's $\frac{1}{10}$ of 20.
4. Try again with 30, then 40.
5. Record what you found.

Number shared	Into	In each pile	So one tenth of it is

Grown-ups: sharing "one for you, one for you…" into 10 piles is exactly what dividing by 10 means. Ask "What do you notice about one tenth of 20, 30 and 40?"

3 Practise

A. Fill in the missing tenths on the number line.



Counting in tenths

Name _____ Date _____

B. Count up or down. Fill the gaps.

$\frac{2}{10}$, $\frac{3}{10}$, $\frac{4}{10}$, $\frac{\square}{10}$, $\frac{\square}{10}$

$\frac{8}{10}$, $\frac{7}{10}$, $\frac{6}{10}$, $\frac{\square}{10}$, $\frac{\square}{10}$

$\frac{5}{10}$, $\frac{\square}{10}$, $\frac{7}{10}$, $\frac{\square}{10}$, $\frac{9}{10}$

1 , $\frac{9}{10}$, $\frac{\square}{10}$, $\frac{\square}{10}$, $\frac{6}{10}$

C. Find one tenth. Share into 10 equal groups.

$\frac{1}{10}$ of 20 = $\square$ $\frac{1}{10}$ of 50 = $\square$ $\frac{1}{10}$ of 70 = $\square$ $\frac{1}{10}$ of 100 = $\square$

D. What fraction of each bar is shaded?



$\frac{\square}{\square}$



$\frac{\square}{\square}$



$\frac{\square}{\square}$

Challenge

Leo counts down in tenths from $\frac{6}{10}$. He says, "$\frac{6}{10}$, $\frac{7}{10}$, $\frac{8}{10}$." Is he right? Write what he should say.

I can… Tick when you can.

- ☐ count up and down in tenths
- ☐ find one tenth by sharing into 10
- ☐ say that ten tenths make one whole