## Show what you know



A number task

Every group is made up of different minds.


Every mind has a unique set of understandings and different ways of seeing. Together, our minds already have a lot of knowledge!

## Numbers are all around us

## and we continue to explore and use

 numbers every day.Here's a question to practise brainstorming what we already know:

## What do you know about

 two-digit numbers?1. Spend some time thinking.
2. Spend some time sharing ideas as a group.

Between us, we already know a fair bit about two-digit numbers!


Today's task is to choose a number from 11 to 99 and 'show what you know' (or what you think you know) about your chosen number.

Some benefits of 'showing what you know':

- It activates our brain before we learn more about a topic.
- It shows that different minds have different mathematical ideas. Sharing and discussing different ideas can help us learn.
- It gives us insights into what we already know (or think we know!) so we can deepen and extend our understandings.


Here is an example and some tips for showing what you know.

## Step 1: Choose a number

Choose a 2-digit number from 11 to 99.

This is the number you will 'show what you know' about.

I've been playing a lot with numbers to 20 so l'll choose one of those numbers.


## Step 2: Brainstorm ideas

Brainstorm ideas about
 your chosen number on scrap paper.

See the example here.

- What do you notice?
- Can you see any mistakes?
(aka opportunities to learn?)


## Step 2: Brainstorm ideas

Keep adding ideas to your list. Dig deep! 'Show' what you know by including some visual models* of your chosen number.
*A visual model usually consists of materials, a picture or image.

What visual models can you see here?

## Step 2: Brainstorm ideas

There are many different ways to think about and describe numbers.

Why is it useful to do a rough brainstorm before a good copy?


## $10+1+1+1=13$




Step 4: Add ideas to your good copy

After you've checked through your ideas, it's time to start presenting them on your good copy paper!

This is a chance for you to show some of your creative flair as you 'show what you know'.


## Step 1: Choose a number.

Step 2: Brainstorm ideas.

Step 3: Check your ideas.
Step 4: Add ideas to your good copy.


## Learning intention:

Show what we (think we) know about 2-digit numbers.

Success criteria:


- Choose a number to work with.
- Use visual models to show what I know.
- Dig deep - come up with a variety of ideas.

