

Diving into Mastery – Diving

Adult Guidance with Question Prompts

Children will need practical apparatus, e.g. tens frames, place value cards, cubes.

Look at the first image. How many cubes make up one stick?

How many cubes are on their own (i.e. the ones)?

What number do you think it represents?

I think the second one will have zero in the ones column, am I right? Why?

Can you write all these as numbers?

Which is the greatest number? Which is the smallest?

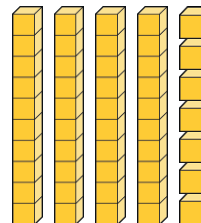
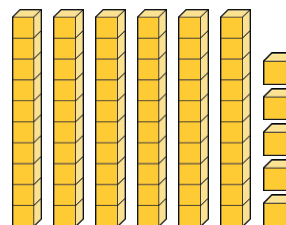
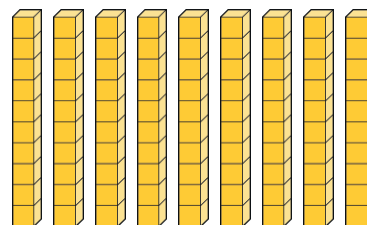
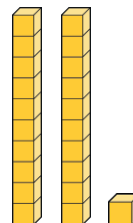
Can you tell just by looking? How?

Can you show me, with equipment, another number that lies between the smallest and largest here?

Comparing Numbers



Write the number that is represented by the cubes.
Ring the greatest. Tick the smallest.



Using equipment, make another number that is between the smallest and greatest.

Diving into Mastery – Deeper

Adult Guidance with Question Prompts

Children may need to refer to a number line to 100 if they struggle to visualise the missing numbers.

What numbers can you see on this number line?

Some numbers are missing. Adam thinks that 65 will be on this line. Do you agree? Explain how you know.

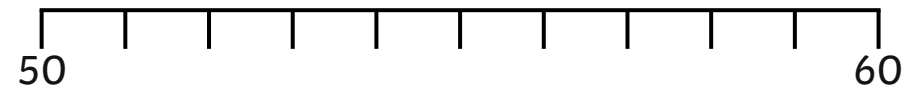
Rani thinks 55 will be on the line. Do you agree? Explain how you know.

What other numbers are missing from this line?

Comparing Numbers



Adam and Rani are looking at a number line.



65 will be on this number line. It will be halfway along.

The number that is halfway along is 55.



Adam



Rani

Who is correct? Convince me!

What other numbers would appear on this line?

Diving into Mastery – Deepest

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Children could use place value cards or a number line to 100 for this activity.

What do you know about Adam's number?

What could Adam's number be?

Is there more than one possibility?

Could it be 70? Why not?

What do you know about Rani's number?

What could it be?

Is there more than one possibility?

Could it be 22? Why not?

Could it be 102? Why not?

Could it be 32? Why?

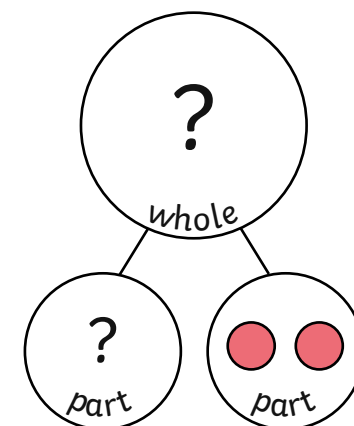
Now it's your turn. Think of a number and give some clues about it. Can you use a representation as a clue, e.g. a part-whole model or place value chart.

Comparing Numbers



Adam and Rani are describing numbers for their friends to guess.

Tens	Ones
7	?



What could each of their numbers be? Explain your answer.

Think of a number between 0 and 100. Make up clues for a friend. Can they guess your number?