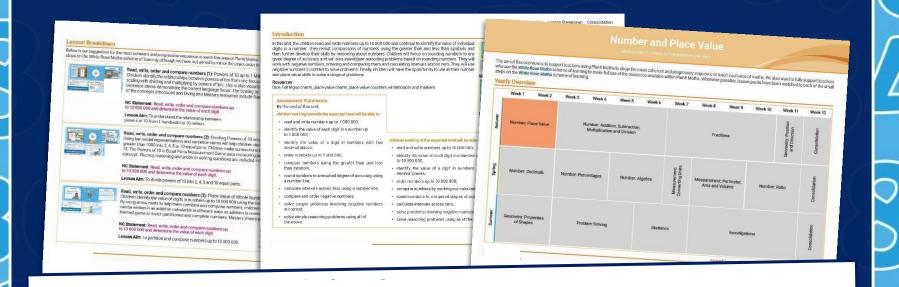
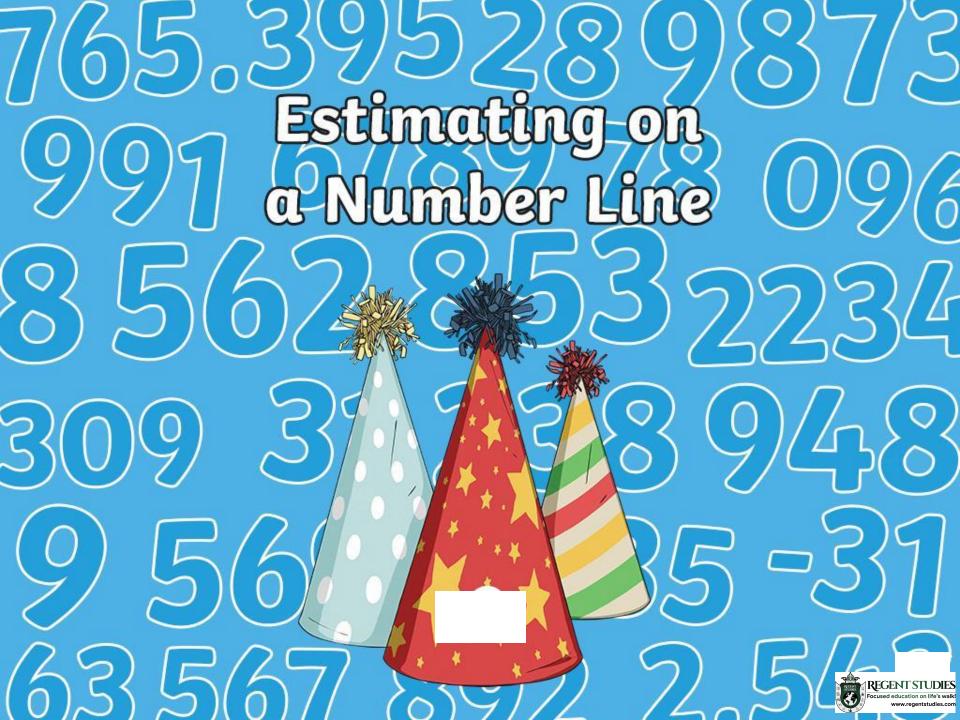


# Need a coherently planned sequence of lessons to complement this resource?





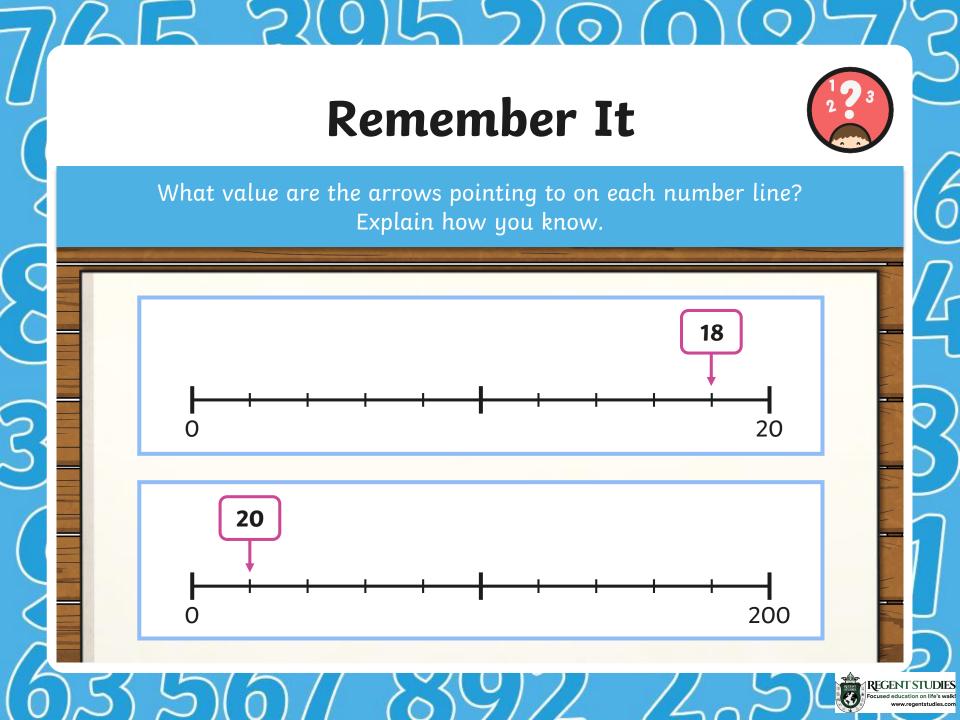


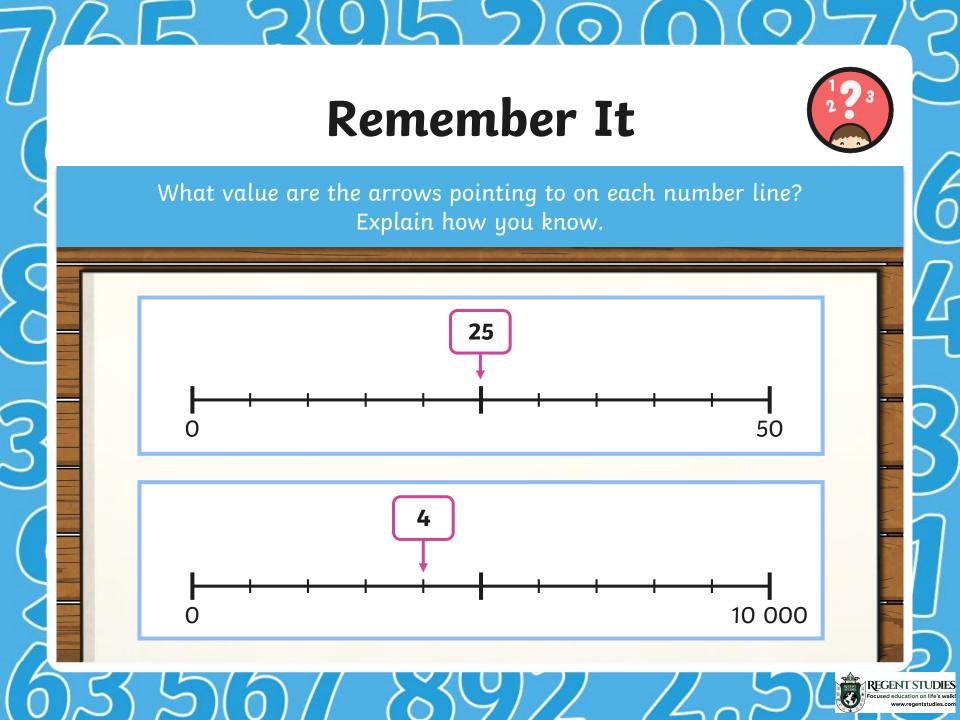
#### Aim

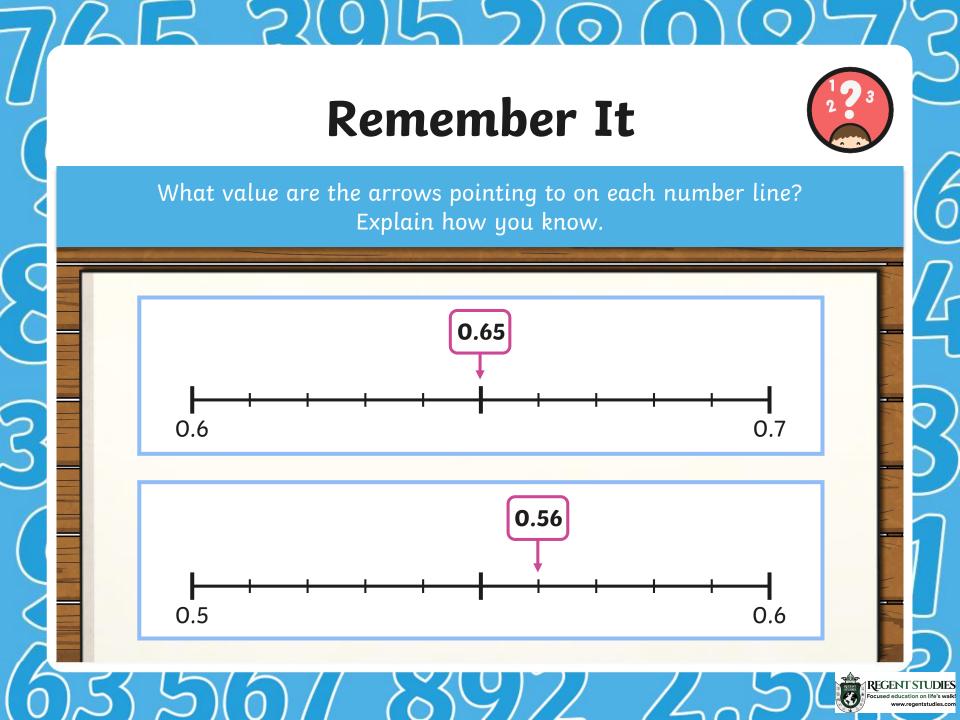
• To estimate numbers with up to 7 digits on number lines.

#### Success Criteria

- I can estimate where to place numbers with up to 7 digits on number lines.
- I can estimate the values of numbers with up to 7 digits indicated on number lines.
- I can use my understanding of dividing powers of 10 into equal parts to help with estimating.
- I know to use leading digits to estimate the position of a large number on a number line.

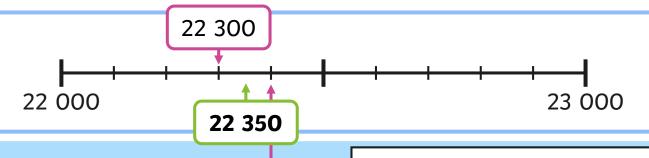






# Placing Numbers on a Number Line





22 400

The number line is marked with the values of 22 000 and 23 000. This is a range of 1000.

The number line is divided into 10 equal parts.

What place value skills can we use to estimate the position of 22 350 on this number line?

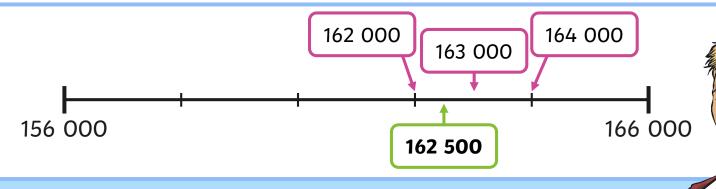
Each increment on the number line represents 100.

22 350 falls halfway between 22 300 and 22 400.









Each increment on the number line represents 2000.

ana 100 000. This is a range

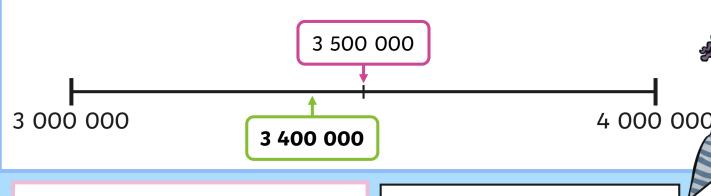
163 000 falls halfway between the increments.

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162 500 falls halfway between 162 000 and 163 000.

What place value skills can we use to estimate the position of 162 500 on this number line?





Each increment on the number line represents 500 000.

ana / Hill Hill Inicica

3 400 000 is closer to

3 500 000 than 3 000 000.

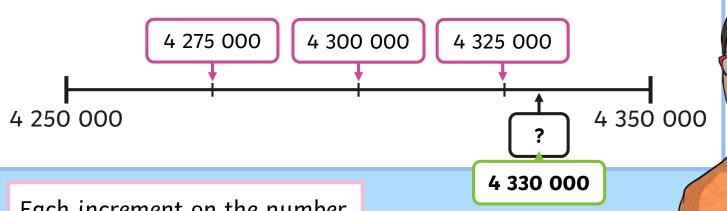
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The greater the increment, the less accurate we can be in our estimation.

What place value skills can we use to estimate the position of 3 400 000 on this number line?







Each increment on the number line represents 25 000.

ana 4 350 000. This is a

The number is closer to 4 325 000. A sensible estimate would be 4 330 000.

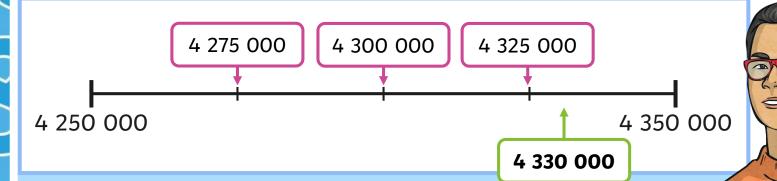
be in our estimation.

What place value skills can we use to estimate the value of the number indicated on the number line?



# Identifying Numbers on a Number Line



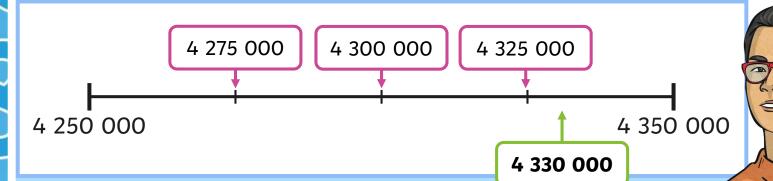


Estimation (or estimating) is the process of finding an estimate, or approximation, which is a value that is close enough to the actual answer to be useable.

Should I expect to be spot on with my estimate? Why not?

# Identifying Numbers on a Number Line

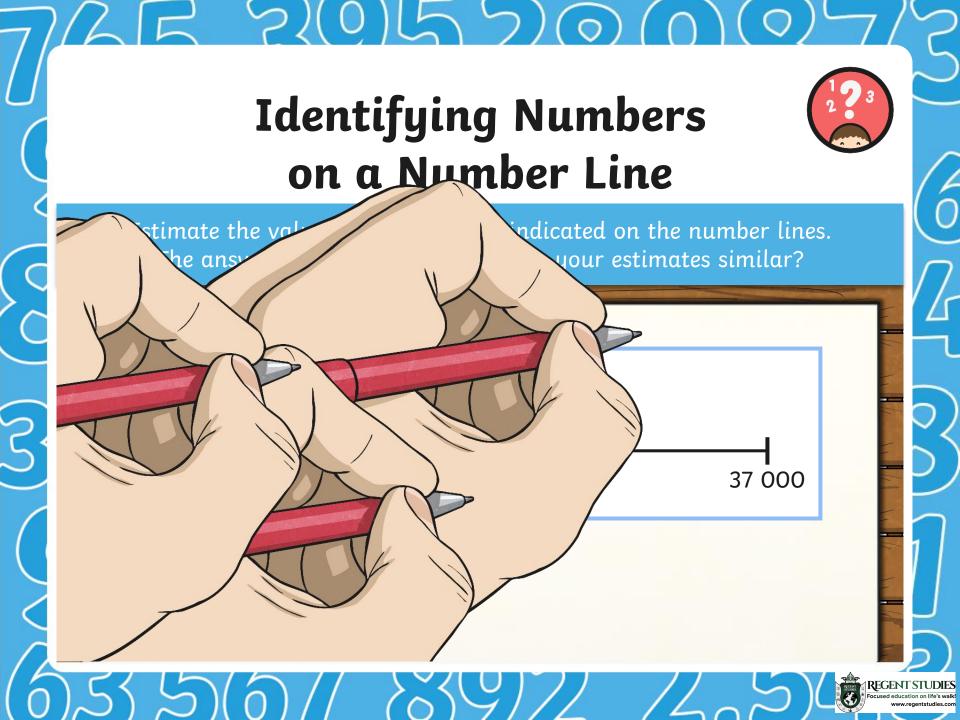




To estimate the value of a number on a large-value number line, think about the digits in the larger place value positions. Accuracy of estimation decreases as you try to estimate the digits in smaller place value positions.

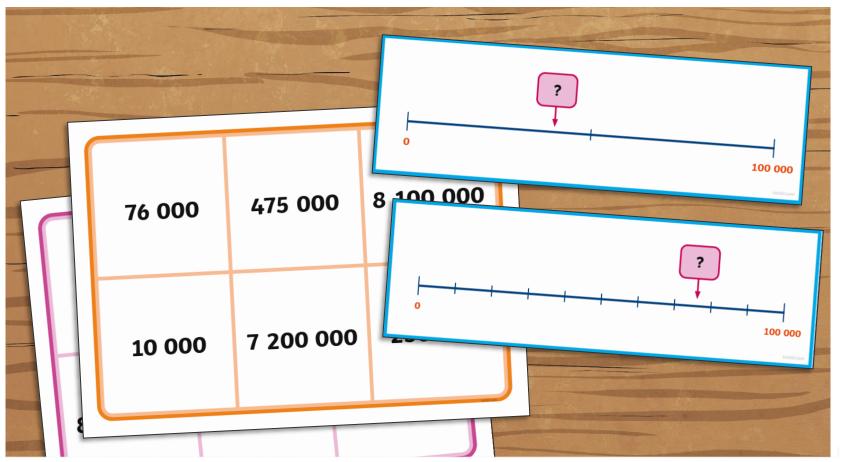
Why do you think I gave an estimate that was a multiple of a thousand? Why would an estimation of 4 339 124 not have been sensible?





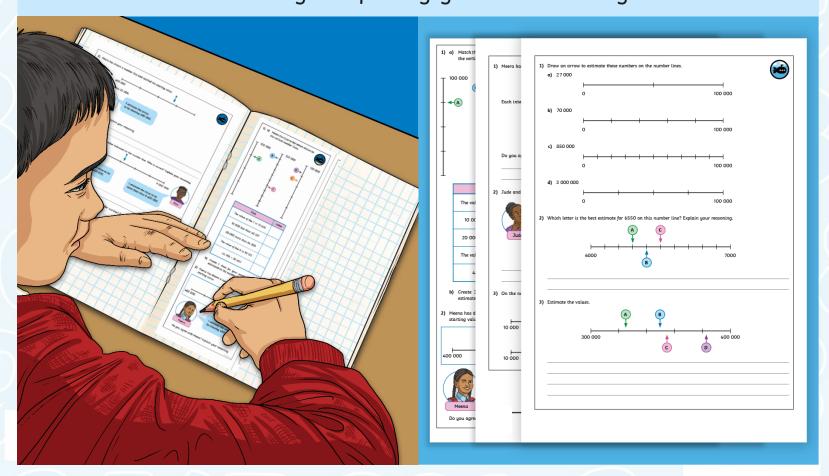
## Estimating on a Number Line Bingo Game



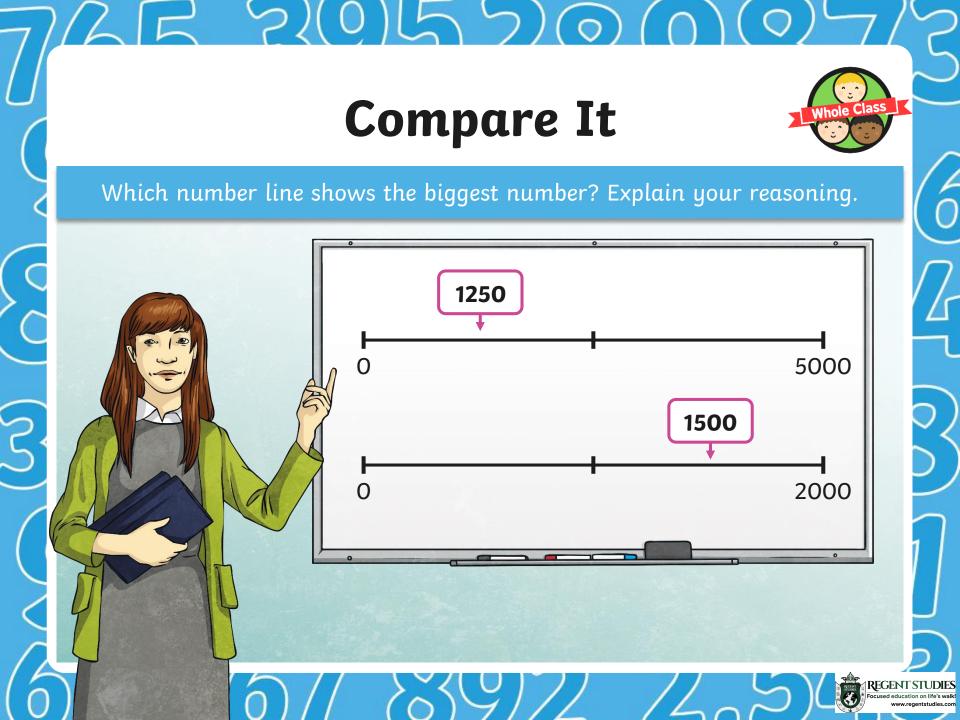




#### Dive in by completing your own activity!







### Aim



• To estimate numbers with up to 7 digits on number lines.

#### Success Criteria

- I can estimate where to place numbers with up to 7 digits on number lines.
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