Mathematics

Number and Algebra

Year One

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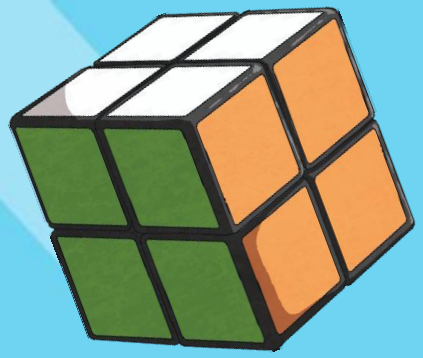
Number Puzzle



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Aim

To calculate mentally with increasingly large numbers using all four operations.

Success Criteria

- I can partition large numbers, and add the most significant digits first.
- I can add or subtract the nearest multiple of ten or 100 then adjust.
- I can identify near doubles.
- I can form an equivalent calculation, e.g. to multiply by eight, double then multiply by four.

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Rolling For Gold

Get into pairs.

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Select Player

There are lots of different strategies we can use to help us.

Let's have a look at some now!

Some calculations we can do in our head mentally. We can write notes to help us remember key numbers while working out the answer.

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Select Player

Which strategy will be most useful when completing this calculation?

To make this easier to work o we can use the method partitioning.

This involves partitioning into hundreds, tens and ones, addin the hundreds firs

385 + 200 = 585
Then add the tens.
585 + 50 = 635
Lastly add the ones.
635 + 4 = 639.
The answer is 639.

385 + 254 = 639

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Select Player

Which strategy will be most useful when completing this calculation?

To make this easier to work o we can use the method partitioning.

This involves partitioning into hundreds, tens and ones, addin the hundreds firs

First subtract the hundreds.
962 - 400 = 562
Then subtract the tens.
562 - 40 = 522
Lastly, subtract the ones.
522 - 3 = 519
The answer is 519.

926 - 443 = 519

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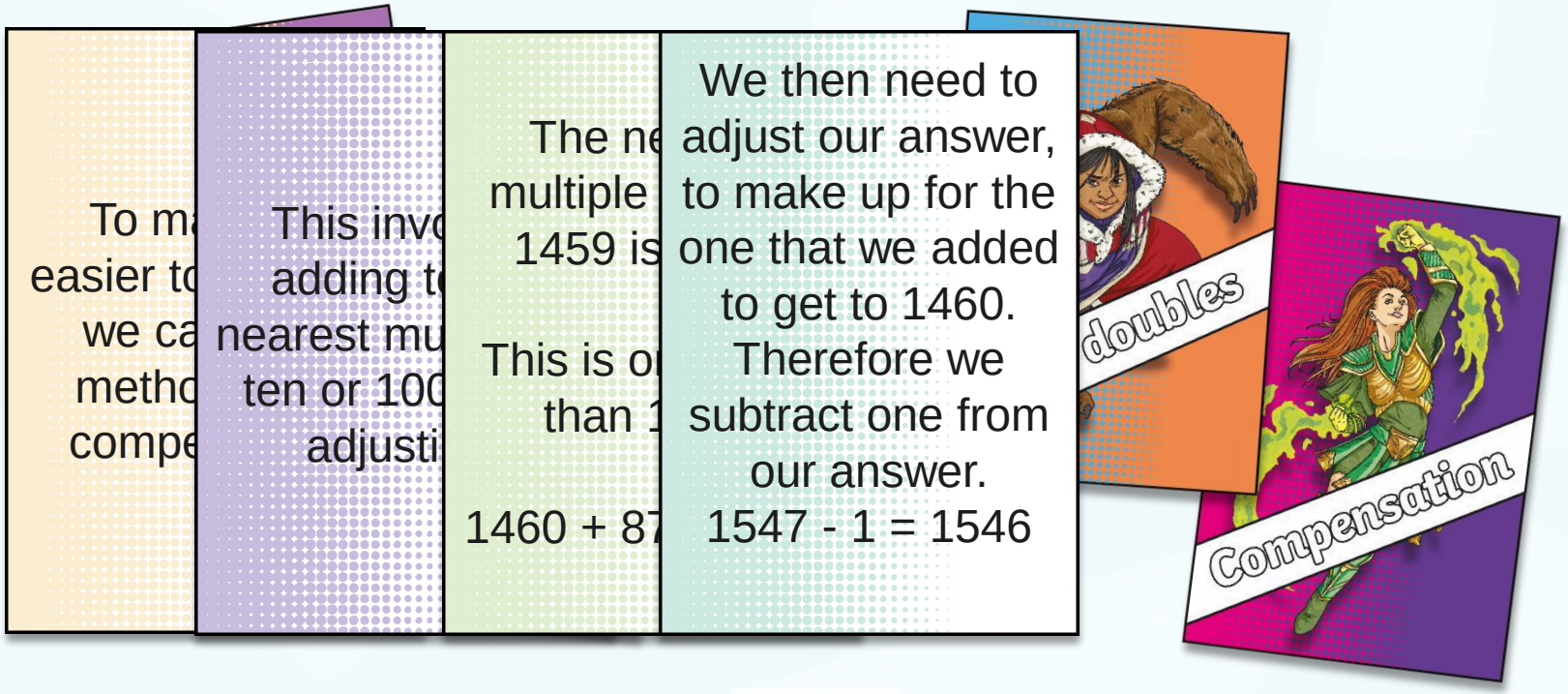
Select Player

Which strategy will be most useful when completing this calculation?



1459 + 87 = 1546

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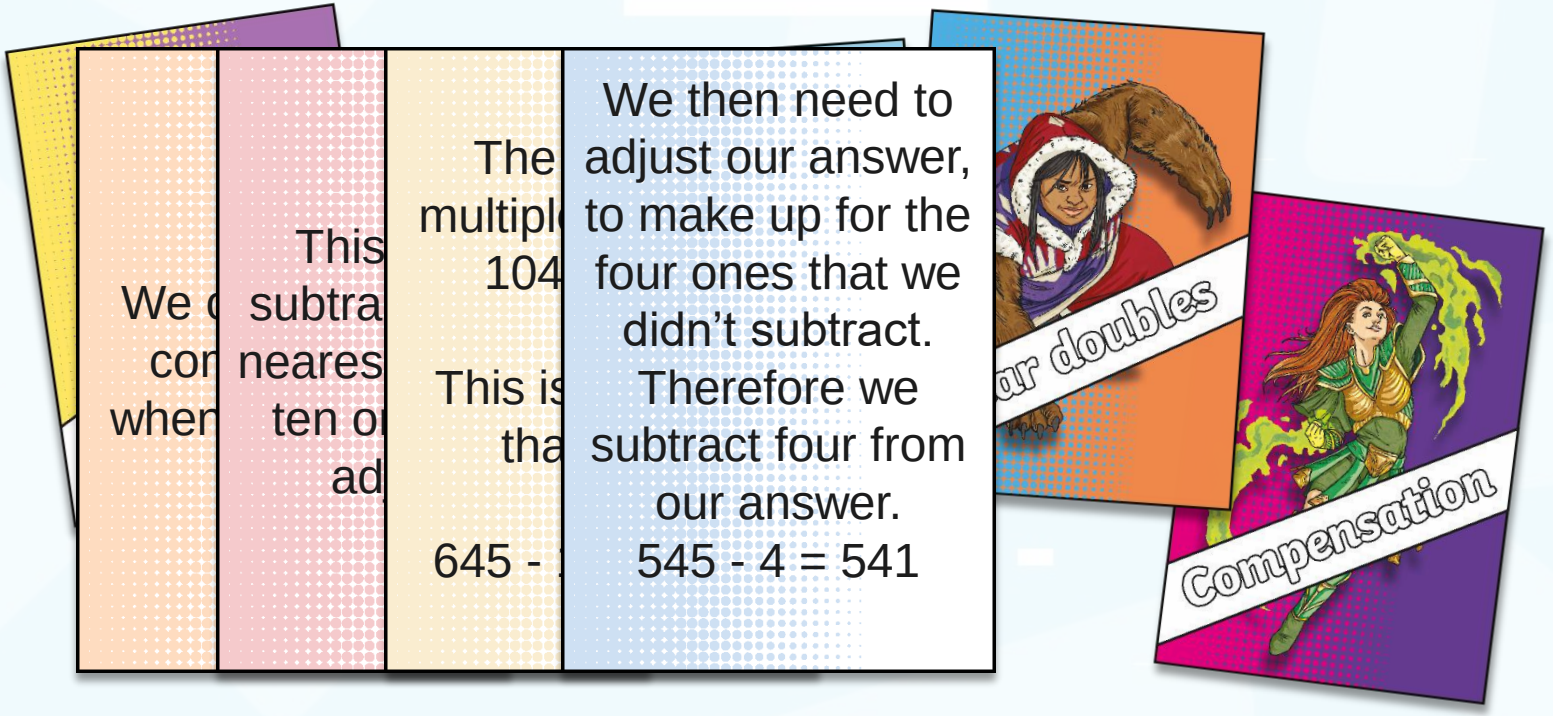
Select Player

Which strategy will be most useful when completing this calculation?



645 - 104 = 541

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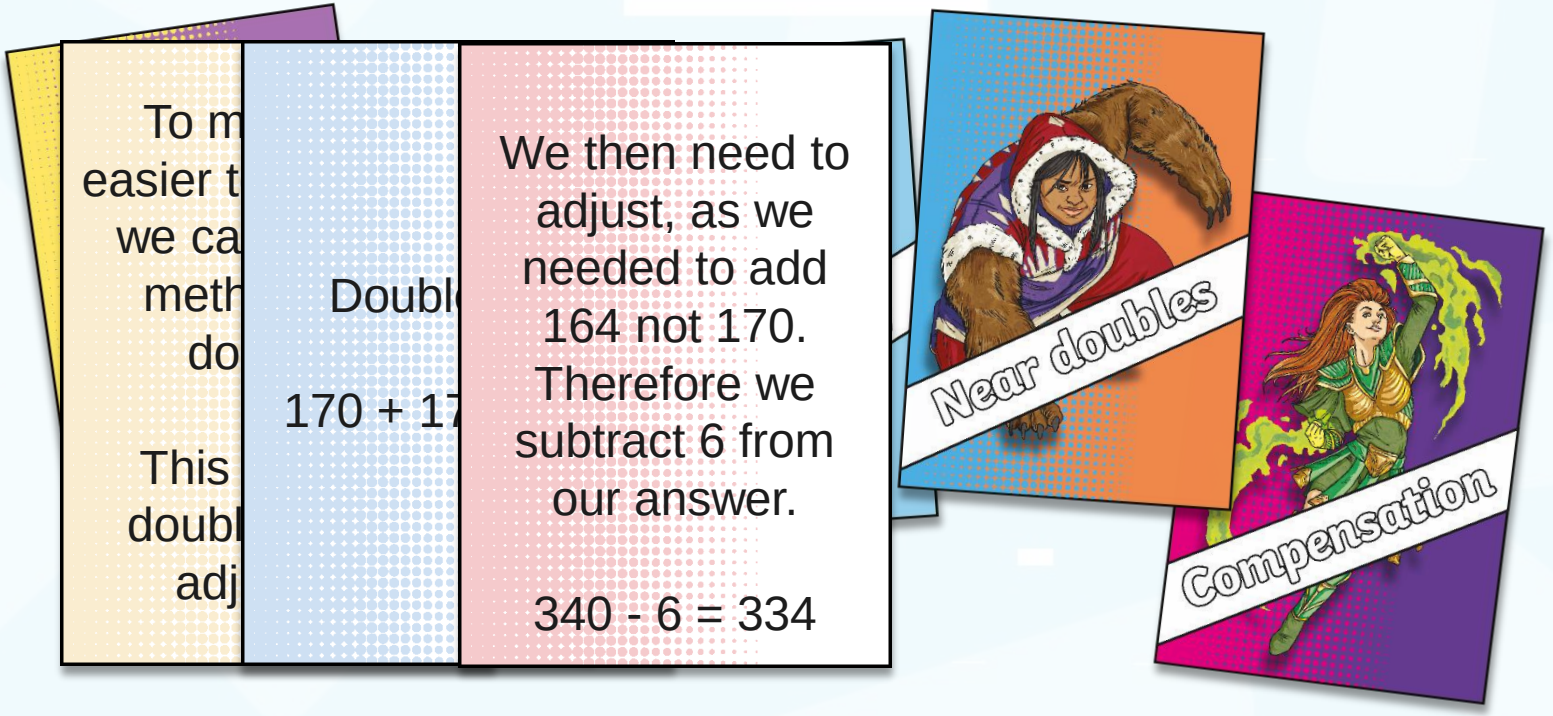
Select Player

Which strategy will be most useful when completing this calculation?



164 + 170 = 334

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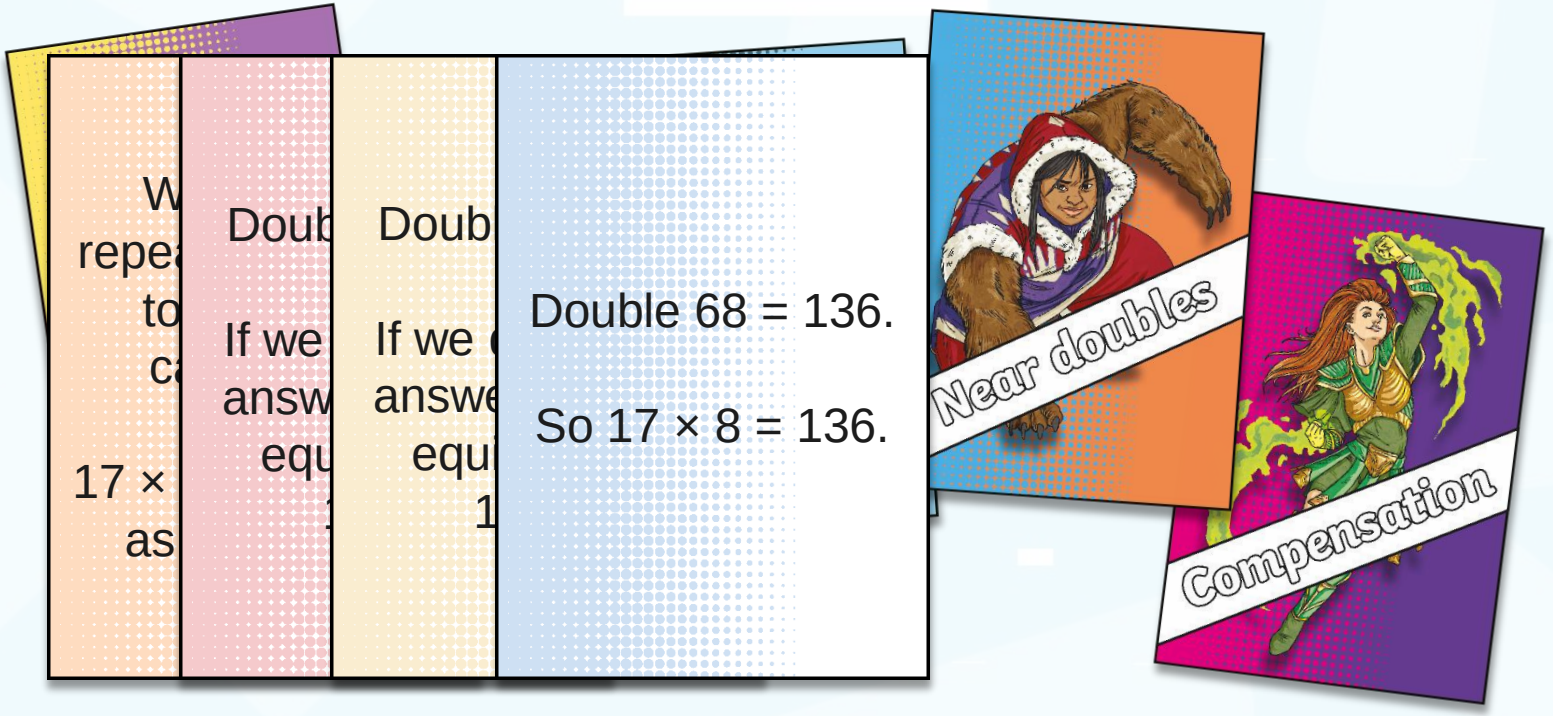
Select Player

Which strategy will be most useful when completing this calculation?



17 x 8 = 136

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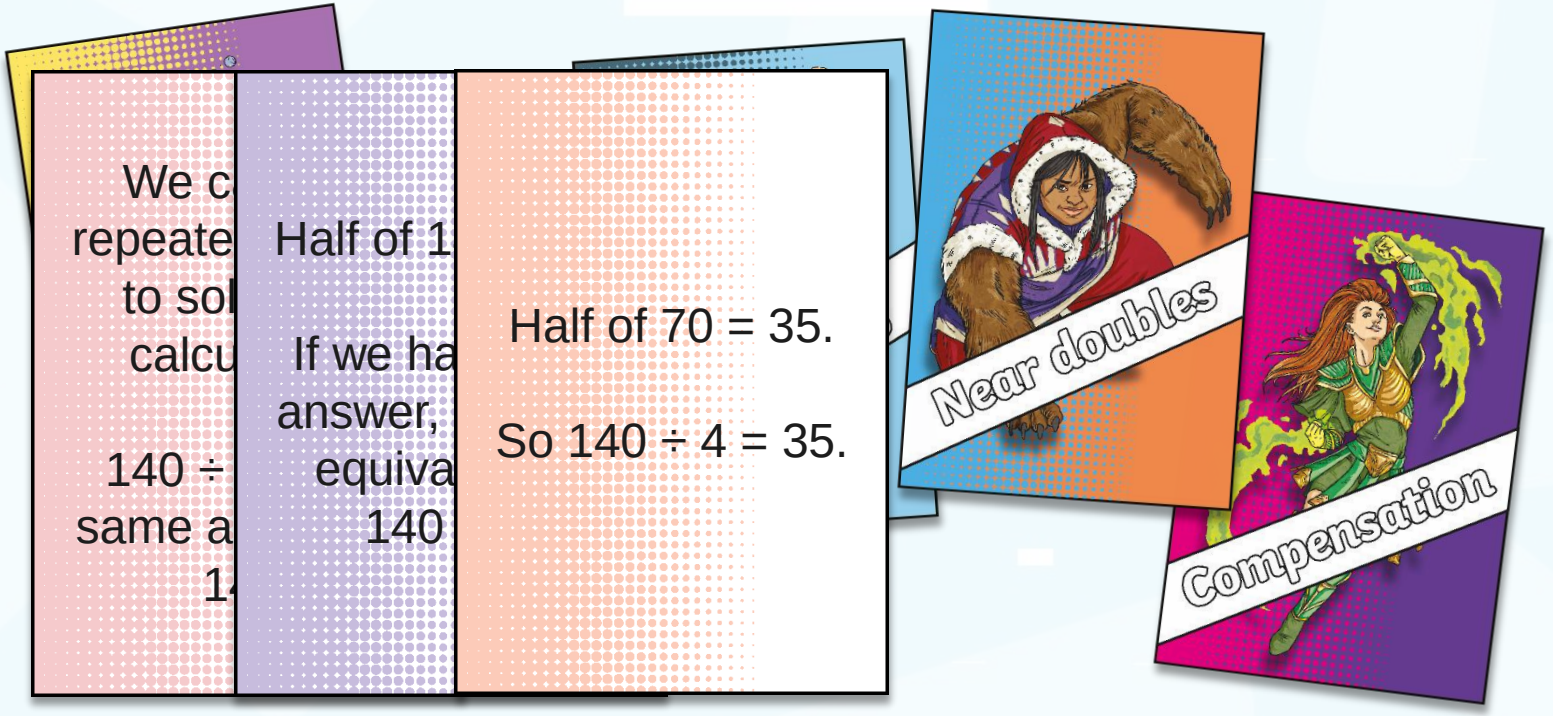
Select Player

Which strategy will be most useful when completing this calculation?



140 ÷ 4 = 35

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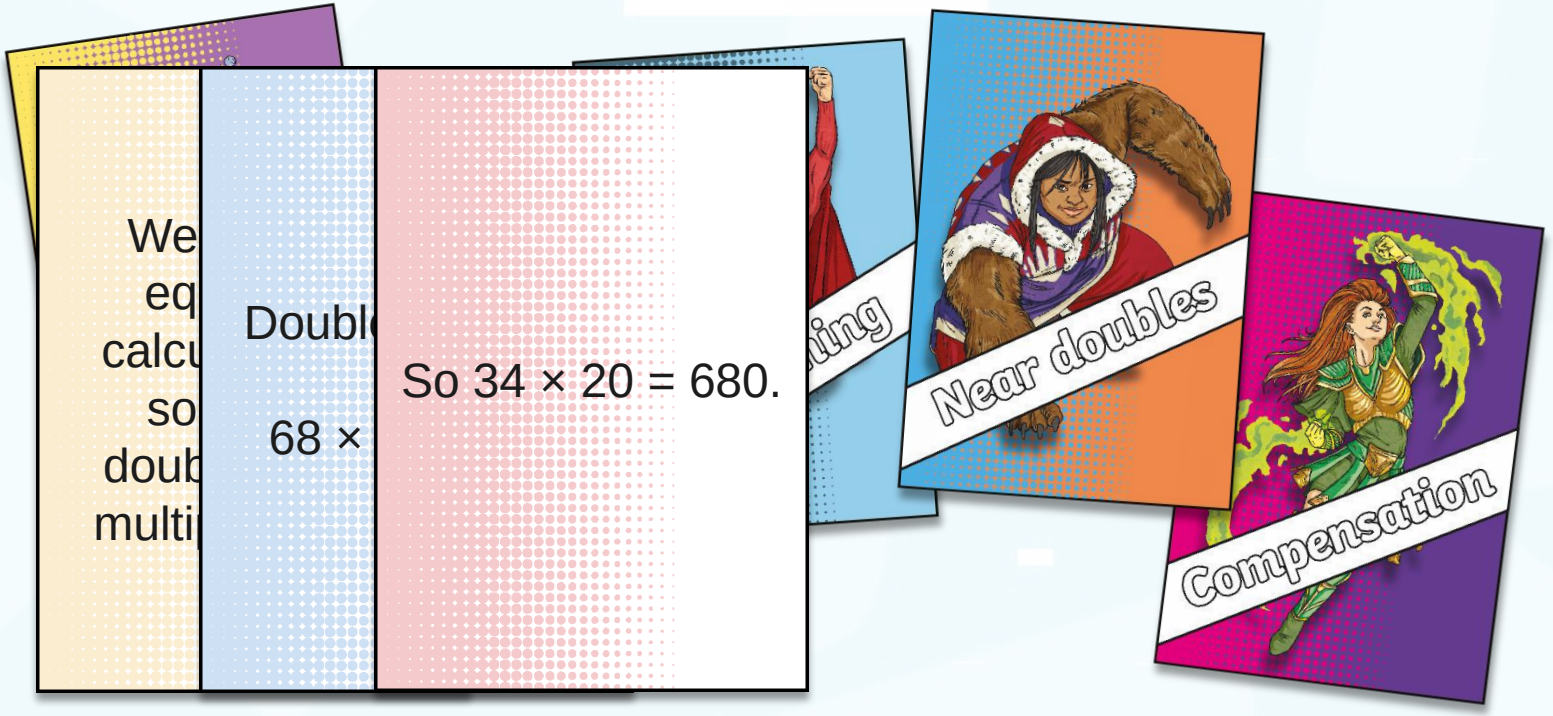
Select Player

Which strategy will be most useful when completing this calculation?



34 × 20 = 680

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Can You Escape the Maze?

Which calculation gives an odd answer?
Select the correct calculation to help you escape the maze.

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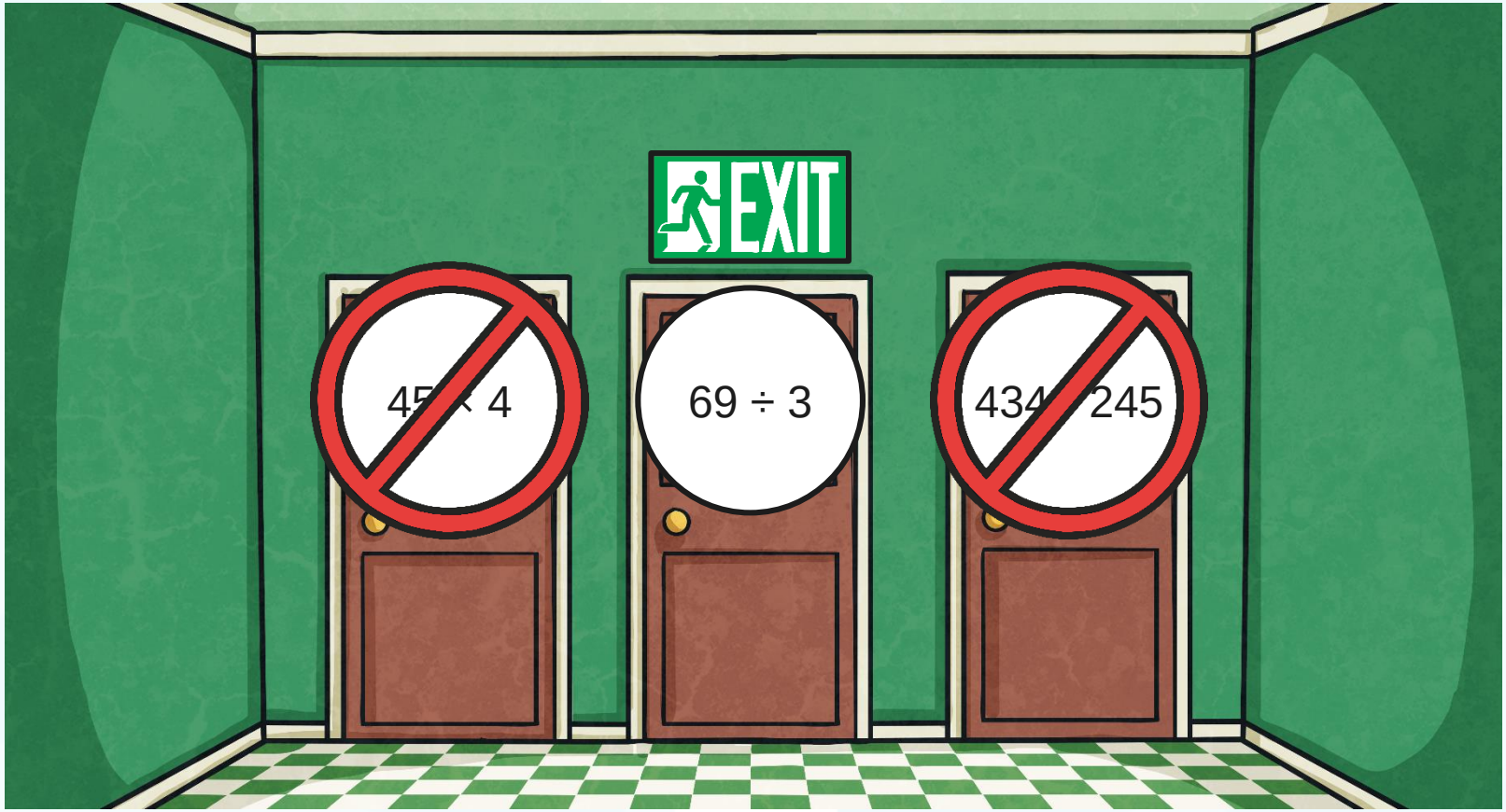
Can You Escape the Maze?

Which calculation has an answer that is a prime number?
Select the correct calculation to help you escape the maze.



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Can You Escape the Maze?

Which calculation gives an answer that is a square number?
Select the correct calculation to help you escape the maze.

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Can You Escape the Maze?

Which calculation gives an answer that is a multiple of 3?
Select the correct calculation to help you escape the maze.

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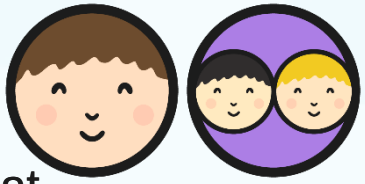
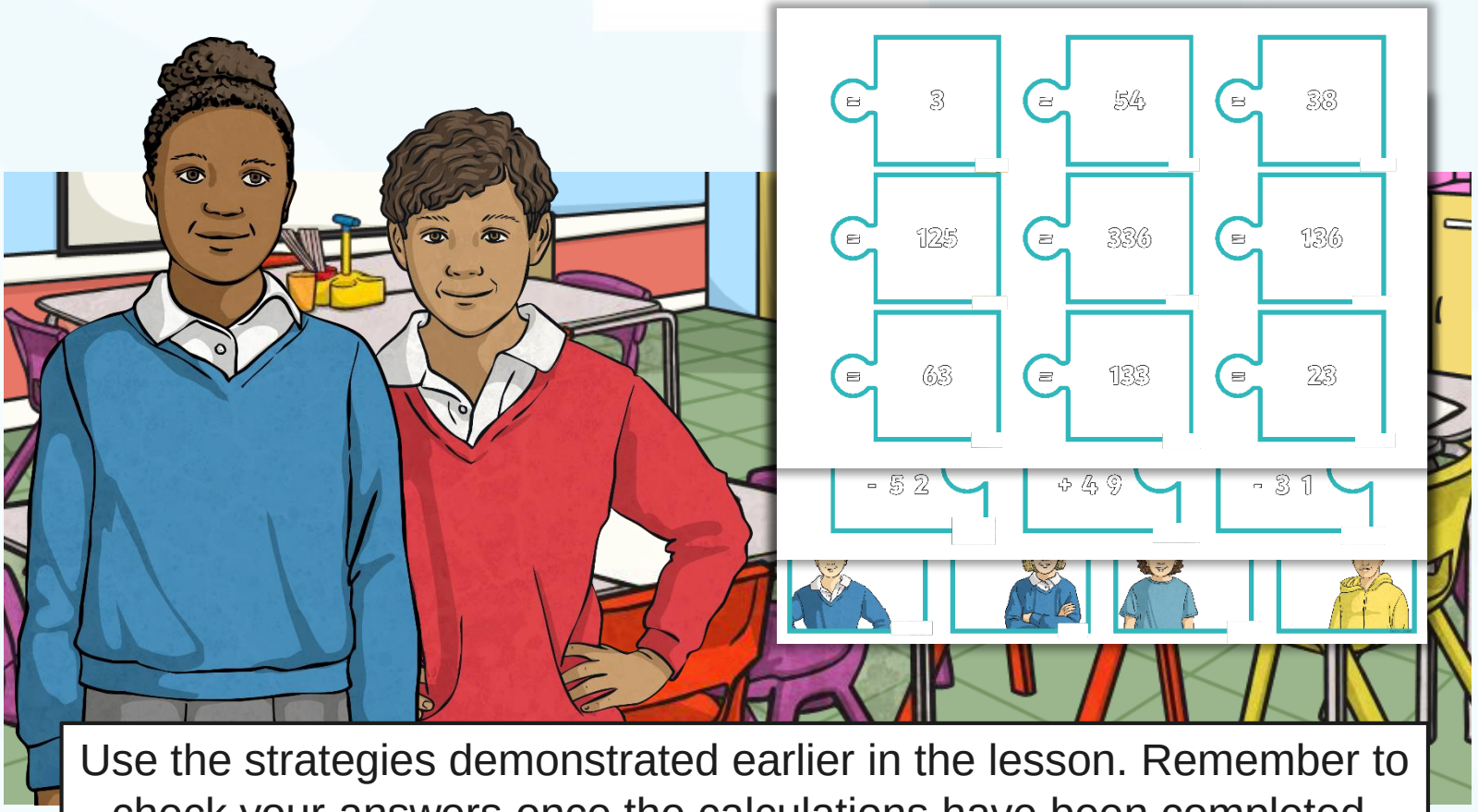
Number Puzzle



You will be completing a range of questions that will require you to perform mental calculations.



Use the strategies demonstrated earlier in the lesson. Remember to check your answers once the calculations have been completed.

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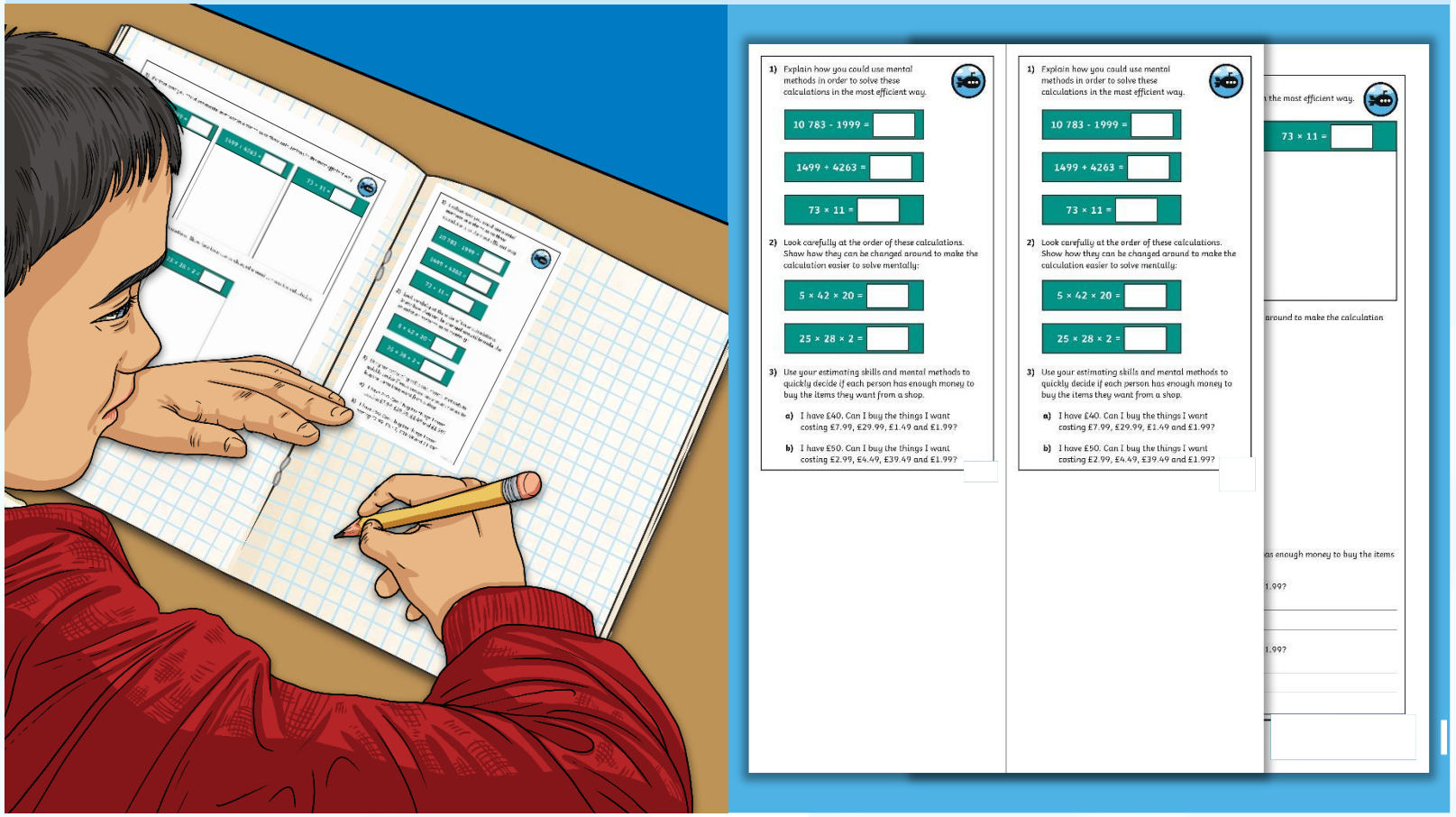
Diving into Mastery

Dive in by completing your own activity!



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Still Puzzling?

How did you find the task?

Did you struggle with any of the calculations?

Is there any calculation you have completed that you are proud of?

Where can you use and apply this skill in other areas of mathematics or in other subjects?

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