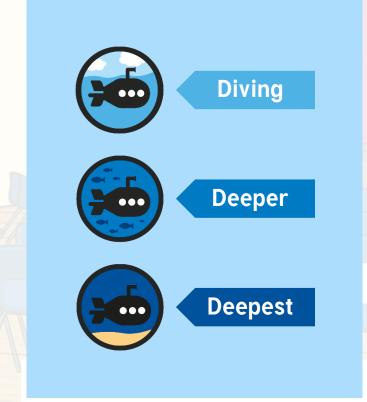


# **Diving into Mastery Guidance for Educators**

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



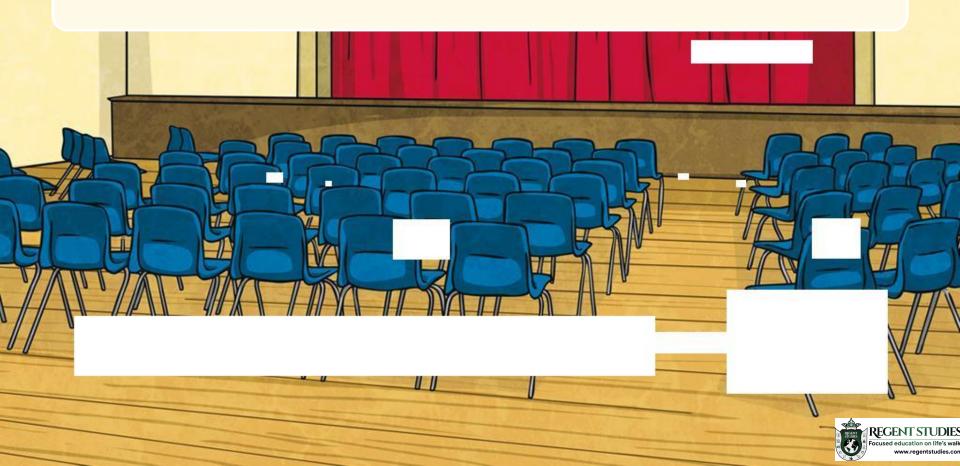
These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.



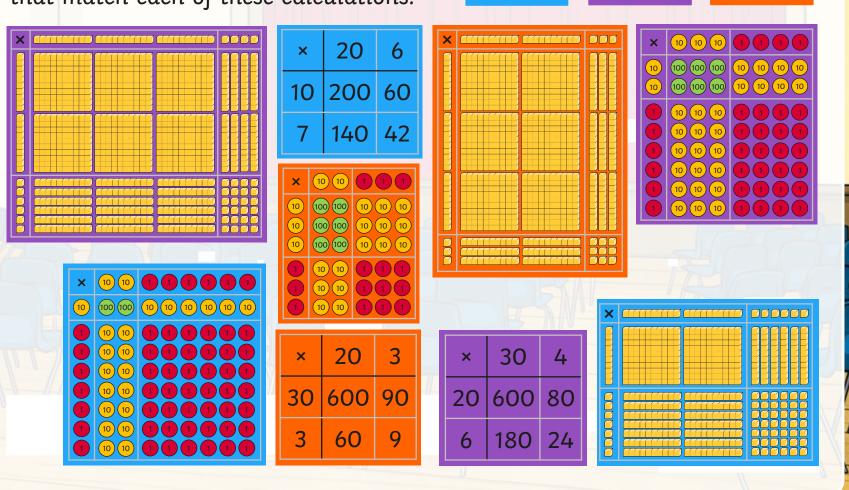
# Aim

• Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.



#### Multiply 2 Digits (Area Model) Diving

Find the three different representations that match each of these calculations:



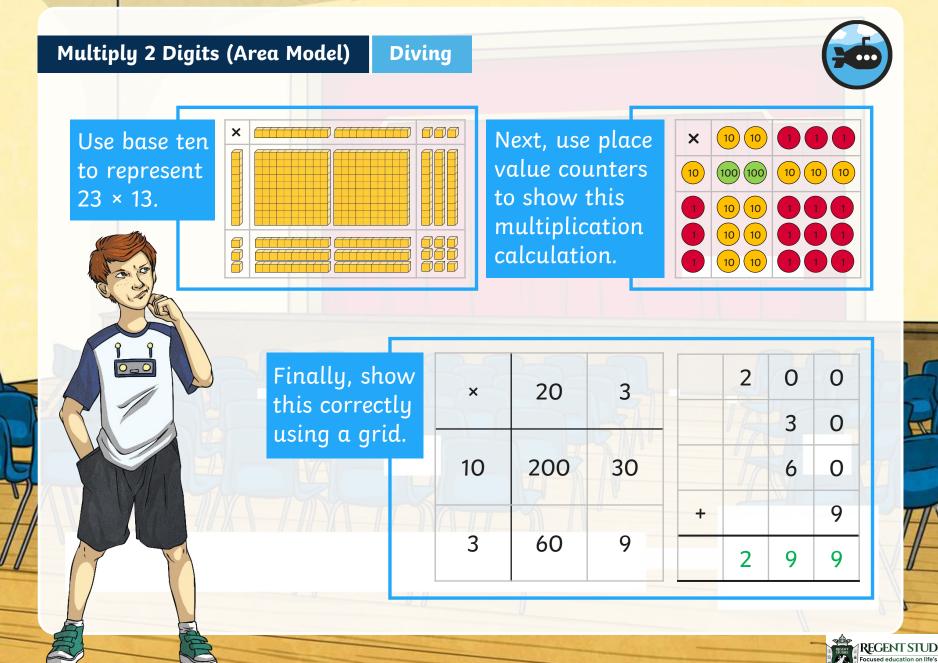
34 × 26

26 × 17

23

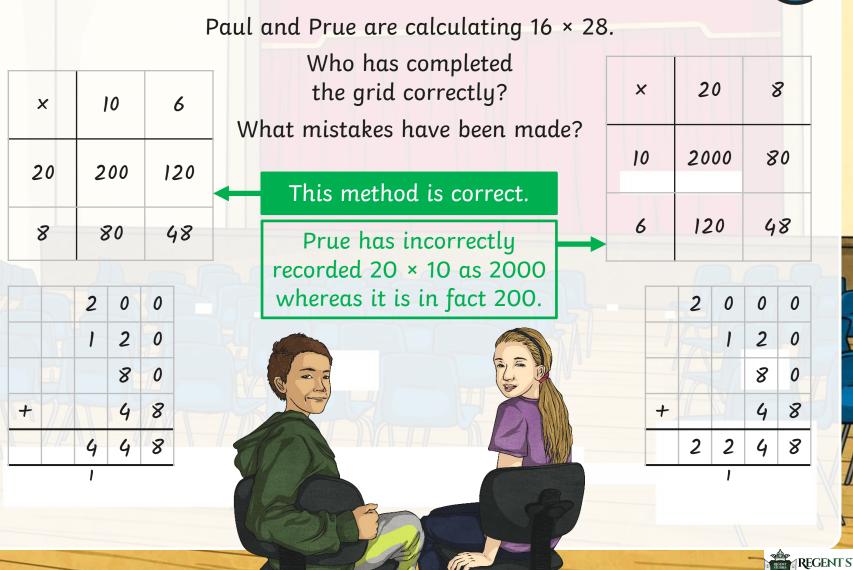
× 33

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Deeper



Deepest





The children at Twinkl Academy are trying to solve the caretaker's clues to find the measurements of their rectangular school hall floor.

The length of each side of the hall floor is a 2-digit number and the area of the hall floor is between 500m<sup>2</sup> and 550m<sup>2</sup>.

What could the measurements be? Find three possible solutions.

> Possible solutions include 26m × 21m, 19m × 28m and 32m × 16m.



Deepest

The caretaker adds an extra clue to help the children.

One of the sides has a digit sum of 6.

Find three possible solutions.

Possible solutions include 33m × 16m, 15m × 36m and 24m × 22m.

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Deepest

The caretaker gives a final clue.

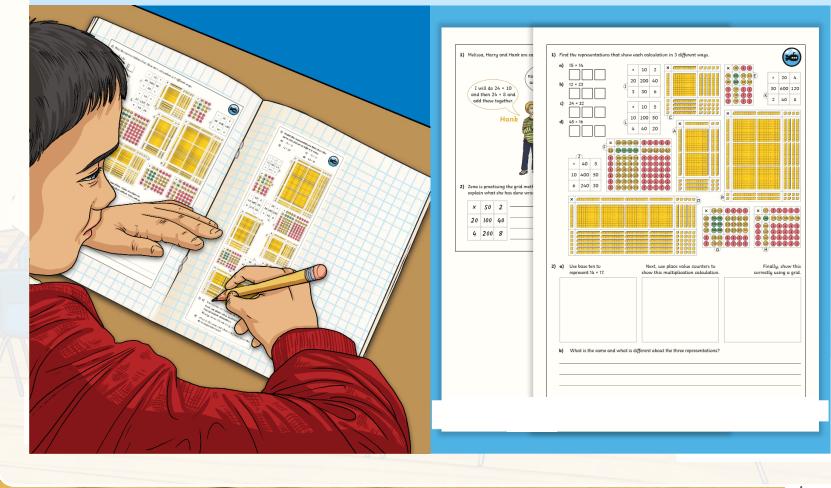
The other side has a digit sum of 4 and the exact area is 528m<sup>2</sup>.

What are the exact measurements of the hall?

The sides of the hall floor measure 24m and 22m.  $24m \times 22m = 528m^2$ 



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



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## **Need Planning to Complement this Resource?**

## **National Curriculum Aim**

Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.

### For more planning resources to support this aim,

