Week 8, Day 1

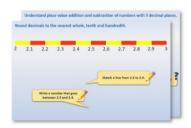
Grid multiplication (1)

Each day covers one maths topic. It should take you about 1 hour or just a little more.

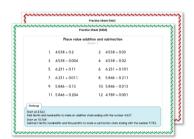
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



OR start by carefully reading through the **Learning Reminders**.



Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

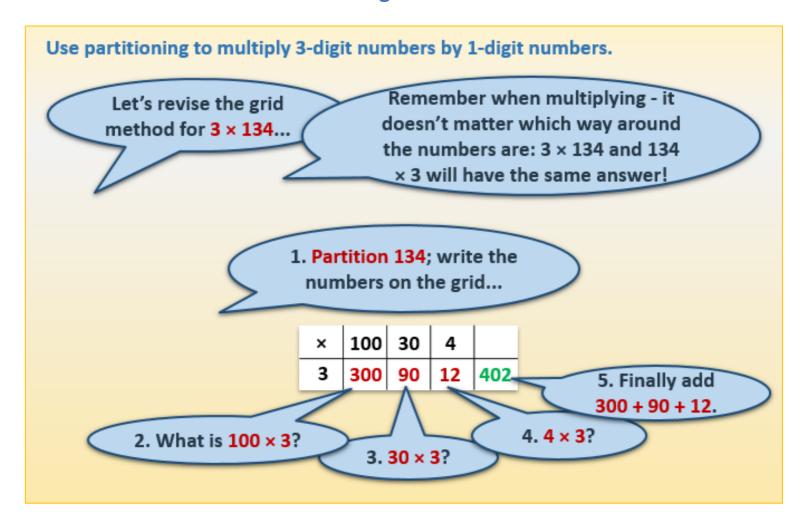


4. Have I mastered the topic? A few questions to **Check your understanding.**

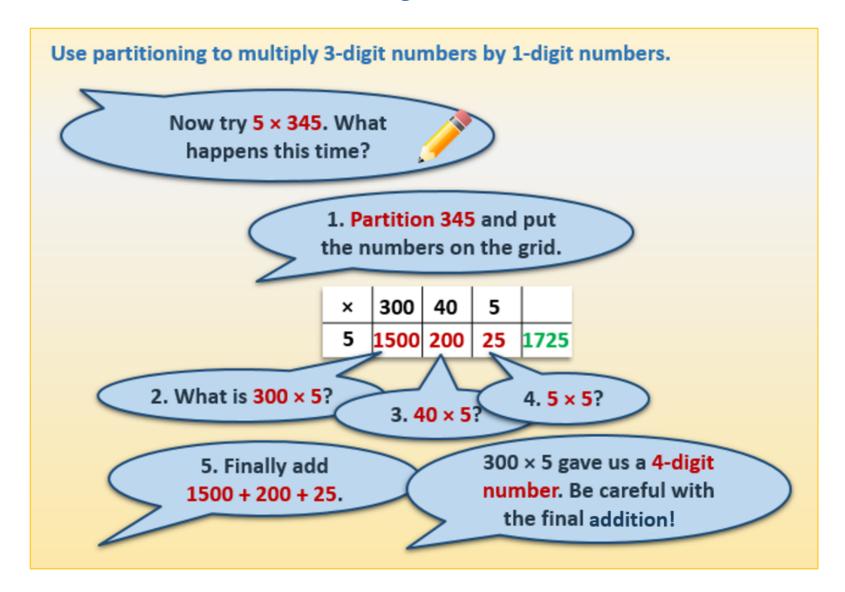
Fold the page to hide the answers!



Learning Reminders



Learning Reminders



Practice Sheet Mild

Using the grid method

Use the grid method to solve these multiplications.

3		X	4	1
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$$147 \times 3$$

$$522 \times 4$$

$$123 \times 5$$

$$313 \times 8$$

Practice Sheet Hot

Multiplying three-digit numbers

Use the grid method to solve these multiplications.

$$513 \times 4$$

$$623 \times 5$$

$$363 \times 8$$

Challenge

Find the missing number in this calculation:

Practice Sheet Answers

Using the grid method (Mild)

3 x 47 = 141	4 x 492 = 1968
147 x 3 = 441	123 x 5 = 615
3 x 291 = 873	5 x 181 = 905
522 x 4 = 2088	6 x 115 = <mark>690</mark>
4 x 285 = 1140	313 x 8 = 2504

Multiplying three-digit numbers (Hot)

3 x 224 = 672	5 x 549 = 2745
3 x 347 = 1041	6 x 215 = <mark>1290</mark>
513 x 4 = 2052	363 x 8 = 2904
4 x 488 = 1952	8 x 428 = <mark>3424</mark>
623 x 5 = 3115	9 x 314 = 2826

Challenge

637 x 6 = 3822

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A Bit Stuck? Grid genius

Work in pairs, but record your work on your own sheet.

Things you will need:

A pencil



What to do:

• Use the grid method to work out the answer to the multiplications:

3 x 12

5 x 13

4 x 15

X	10	3	
5			

X	10	5	
4			

 Next choose at least two multiplications and draw your own grid to keep track of your steps. Now you are a grid genius!

7 x 13

6 x 14

8 x 12

5 x 15

S-t-r-e-t-c-h:

Use the grid method to work out 3 \times 24 and 4 \times 24. Remember that to work out 3 \times 20, we can multiply the answer to 3 \times 2 by 10.

Learning outcomes:

- \cdot I can use the grid method to multiply numbers from 11 to 15 by 1-digit numbers.
- I am beginning to multiply numbers 21 to 25 by 1-digit numbers.

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Check your understanding:Questions

Use grid method to com	plete each of these:	
424 x 6 =		
3 x 848 =		
What do you notice? W	hy does this happen?	

Write the missing numbers:

х	300		
4		160	24

What is the final product?

Answers are on the next page

Check your understanding:

Answers

Use grid method to complete each of these:

424 x 6 = 2544

х	400	20	4
6	2400	120	24

 $3 \times 848 = 2544$

х	800	40	8
3	2400	120	24

What do you notice? Why does this happen?

The answers are the same since 848 is double 424 and it is being multiplied by 3 which is half of 6.

Write the missing numbers:

х	300	40	6
4	1200	160	24

What is the final product? 1384 (346 x 4).