Week 8, Day 2 Grid multiplication (2)

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



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

Start by reading through the Learning Reminders.

They come from our *PowerPoint* slides.

1.

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



2. 4.538 + 0.0

4538 - 0.03

6.231 + 0.101

8. 5.846 - 0.211

10. 5.846 - 0.013

4538+0.2

3 4538-0004

6.231 + 0.11

6.231 + 0.011

5.846 - 0.13

1. 5.846 - 0.204



Learning Reminders



Learning Reminders



© Hamilton Trust. Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

Practice Partitioning	Sheet Mild g to multiply
Before you start, which multiplication do you think will h And the biggest answer?	nave the smallest answer?
3 x 121	6 x 531
352 x 4	454 x 5
3 x 235	4 x 512
244 x 6	423 x 3
5 x 113	4 x 345
Challenge Find the missing numbers:	$\frac{0}{240} \frac{7}{56} = $
© Hamilton Trust. Explore more Hamilton Trust Learning Materials a	t https://wrht.org.uk/hamilton

Practice Sheet Hot Partitioning to multiply

 $\mathbf{\Delta}$

Before you start, which multiplication do you think will have the smallest answer? And the biggest answer?

324 x 3	365 x 6
437 x 5	463 x 4
4 x 582	8 x 508
6 x 206	3 x 213
132 x 8	5 x 145

Challenge

Will 354 x 6 have a larger or smaller answer than 654×3 ? How do you know?

Will 315 x 4 have a larger or smaller answer than 415 x 3? How do you know?

© Hamilton Trust. Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

Practice Sheet Answers

 \wedge

 \bigcirc

Partitioning to multiply (Mild)

3 × 121 = <mark>363</mark>	6 × 531 = <mark>3186</mark>
352 × 4 = <mark>1408</mark>	454 × 5 = 2270
3 × 235 = <mark>705</mark>	4 × 512 = <mark>2048</mark>
244 × 6 = 1464	423 × 3 = 1269
5 × 113 = <mark>565</mark>	4 × 345 = 1380

Partitioning to multiply (Hot)

324 × 3 = <mark>972</mark>	365 × 6 = <mark>2190</mark>
437 × 5 = <mark>2185</mark>	463 × 4 = <mark>1852</mark>
4 × 582 = <mark>2328</mark>	8 × 508 = <mark>406</mark> 4
6 × 206 = <mark>1236</mark>	3 × 213 = <mark>639</mark>
132 × 8 = <mark>1056</mark>	5 × 145 = <mark>725</mark>



Challenge

354 x 6 will have a larger answer than 654 x 3.315 x 4 will have a smaller answer than 415 x 3.

 \bigcirc

 \bigcirc

A Bit Stuck? Grid luck

Discuss your work together, in pairs

Things you will need:

A pencil

What to do:

- Use the grid method to work out the multiplications on the sheet.
- Start by partitioning the 2-digit number.
 Write the numbers in the correct places on the grid along the top.
- Write the 1-digit multiplier on the grid.
- Multiply the numbers and write the answers.
- Add the answers and complete the number sentence for the calculation.
- You can use the place value grid to help you multiply by 10 and 100.

U					
\bigcirc					
\bigcirc					
\bigcirc	6	x 23 =	•		
\mathbf{C}					
0	X	20	3	=	
0	6	120	18		
0	2				
~					
0	Rep. and a state				
(

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

Use the digits 2, 3, 4 and 5 in any order that you wish to make a 3-digit by 1-digit multiplication, e.g. 5 x 342. Find the answer using the grid method.

The person who has the answer closest to 1000 wins.

Learning outcomes:

- I can use the grid method to multiply 2-digit numbers by 1-digit numbers.
- I am beginning to use the grid method to multiply 3-digit numbers by 1-digit numbers.

© Hamilton Trust. Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

		A Bit Stuck? Grid luck	
	100s	10s	1 s
© Hamilton ⁻	Trust. Explore more H	Hamilton Trust Learning Materia	als at https://wrht.org.uk/hamilton



		A Bit Stuck? Grid luck			
4 x 235 =				1	
x	200	30	5	=	
4					
6 x 123 =			I		
X				=	
3 x 315 =	1	1	1	1	
© Hamilton Trust.	Explore more Hami	Iton Trust Learning Ma	terials at https://wi	rht.org.uk/hamilton	

