25.01.2021

OLI: To multiply using the extended method

Use the extended method to solve these sums. Look at Q1 and Q2 to help you with how to set out your work.

1.

		4	3		
X			4		
				(3x4)	
				(40x4)	
				(3x4) +	(40x4)

2.

		3	5		
X			3		
				(5x3)	
				(30x3)	
				(5x8) +	(30x3)

Now set these out yourself, make sure you put one number in each square and line up the columns carefully:
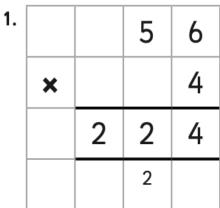
3. 22 x 3

4. 54 x 8

5. 33 x 8

6. 68 x 4

7. 81 x 4

8. 82 x 3

9. 40 x 8

10. 45 x 4

EXT: Can you use the short method of multiplication to solve these sums?

1.

		5	6
✗			4
	2	2	4
		2	

1. First set your calculation out correctly with one number in each square. Use a ruler to draw the lines.

2. Multiply the ones digit by 4. *(6 x 4 = 24)*

3. Write the 2 tens in the tens column under the line. You need to carry this over to the tens column because it represents 20.

4. Now calculate the tens. Multiply 5 by 4. *(5 x 4 = 20)*

5. Don't forget to add on the 2 tens that you carried. *(20 + 2 = 22)*

Now try these:

1. 49 x 3

2. 8 x 75

3. 3 x 55

4. 91 x 3

5. The product of 8 and 83

6. 64 multiplied by 4