Wednesday 13th May – Multiplication – Reasoning

Use your knowledge and this week's learning of multiplication to solve the following reasoning problems:

	_	_	_	_				_	_	_	_	_
Х	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Example:

Column Method 12x24  $\frac{12}{48} = 288$   $\frac{\times 24}{48} \leftarrow 12\times4$   $+ 240 \leftarrow 12\times28$   $288 \leftarrow 000$ 

1.

1 know... so...  $24 \times 18 = 432$ 25 × 18 = \_\_\_\_\_ 25×17 = \_\_\_\_

2.

2b. Tomas is thinking of a number...

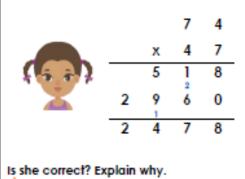
I multiply the number

by 22. The answer is less than 400 but greater than 350.

## What could Tomas' number be?

3.

multiplication.



4.

## How many ways?

Complete using digits 0-9. Position the digit 1 as shown.

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. . . . 5.

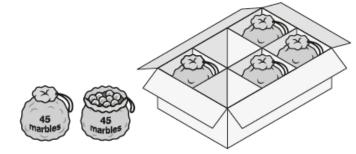
Make the target number of 84 using three of the digits below. 7 5 3 4 6 2 X 2 = 84 Multiply the remaining three digits together, what is the product of the three numbers? Is the product smaller or larger than 84? Can you complete this problem in more than one way?

6.

A toy shop orders 11 boxes of marbles.

Each box contains 6 bags of marbles.

Each bag contains 45 marbles.



How many marbles does the shop order in total?