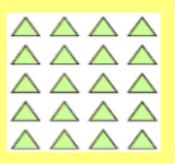
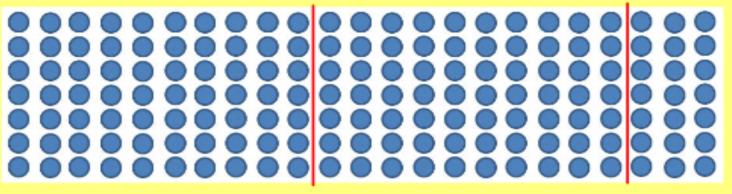
Nednesday HALF WAY TO THE Weekend

## What key vocabulary do we use?

Lots of, groups of, times, multiply, multiplication, multiplied by, multiple of, product, once, twice, three times....... ten times as (big, long, wide etc.) inverse, finding all possibilities, variables, enumerate, combinations, systematic, organised, pattern, starting point, generalise.

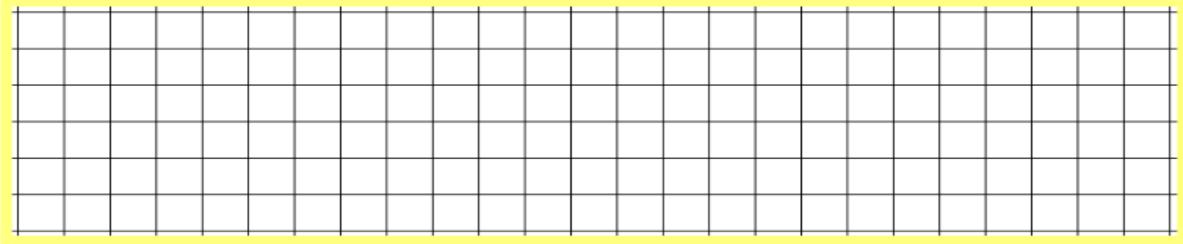
## What does multiplication look like?





## What methods of multiplication can we use?

What is the effect of x 10, 100, 1000?



$$3.6 \times 4 =$$
 $(3 \times 4) + (0.6 \times 4) =$ 

or

 $3.6 \times 2$  and then double.

		2	0		4	
1	0					
	4					

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		1	4							
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	2	8	5			2	8	5				1	3	6				
		X	6				X	6						4				
										Cav	ı W	e m	ake	: th	is c	om	рас	t?



Copy and complete.

Work out

B

Copy and complete.

Work out

C

Work out

1 
$$24135 \times 28$$

$$16562 \times 437$$

One can weighs 387 g. There are 36 cans in a box. What is the total weight of 25 boxes in kilograms?

Some cars (with 4 wheels) and 2 wheeled bikes go past the window. I see nine vehicles and 26 wheels. How many of each vehicle are there?

John and Sarah have the same number of pencils. John has 3 full boxes and 4 loose pencils. Sarah has 2 full boxes and 12 loose pencils. Each box holds the same number of pencils. How many pencils are there in a box?



612 is the product of two whole numbers. How many different pairs can you think of?

John has these four digit cards.









He puts them into these calculations:







Find all the products he can make between 500 and 1000.

In a farmyard I can see goats and ducks. If I can see 54 feet and 20 heads, how many goats and ducks might there be?

write in the missing digits  $23 \times \square = 78\square$ 

Can you design your own missing digit multiplication questions?

Goats	Ducks
13 (52)	1 (2)
12 (48)	3 (6)
11 (44)	5 (10)
10 (40)	7 (14)
9 (36)	9 (18)
8 (32)	11 (22)
7 (28)	13 (26)
6 (24)	15 (30)
5 (20)	17 (34)
4 (16)	19 (38)
3 (12)	21 (42)
2 (8)	23 (46)
1 (4)	25 (50)



Page 13		
A		
1 884	<b>5</b> 2646	9 5916
<b>2</b> 8856	<b>6</b> 1482	<b>10</b> 6132
3 864	7 931	11 7446
<b>4</b> 9345	8 1955	<b>12</b> 16 425
		A ATT
В		
1 32 422 •	5 91 648	<b>9</b> 269 051
2 35 532	<b>6</b> 161 283	<b>10</b> 47 640
<b>3</b> 63 574	<b>7</b> 74 936 *	<b>11</b> 190 086
4 87 400	<b>8</b> 106 610	<b>12</b> 344 112
C		
1 675 780	7 1843 395	13 86 655
<b>2</b> 1 087 712	8 3 389 312	<b>14</b> 84 042
<b>3</b> 1 434 324	9 45 567	<b>15</b> 242 392
<b>4</b> 731 655	10 96 256	<b>16</b> 245 594
5 919 542	11 68 242	<b>17</b> 348.3 kg
<b>6</b> 1832462	<b>12</b> 494 208	The second second
0.1002		