Lesson 1: Scaling Re-cap

We know about place value but let's have a little reminder:

				400 x 7 = 2800
0.7 x 0.4 = 0.28	4 x 0.7 = 2.8	7 x 4 = 28	70 x 4 = 280	700 x 4 = 2800

Now it's your turn:

<u>Spicy</u>

$$0.6 \times 0.3 =$$

$$70 \times 4 =$$

$$0.8 \times 3 =$$

$$900 \times 6 =$$

$$0.7 \times 0.9 =$$

$$60 \times 6 =$$

$$400 \times 8 =$$

$$0.5 \times 7 =$$

<u>Hot</u>

$$\times 0.9 = 0.63$$

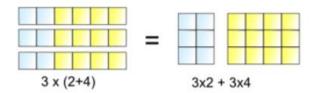
$$\times 0.8 = 0.56$$

Lesson 2: Investigate the Distributive Law

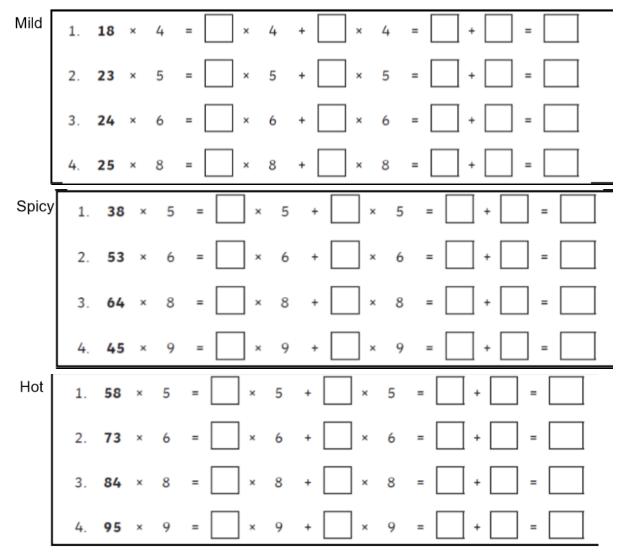
The Distributive Law says that **multiplying a number by a group of numbers added together** is the same as doing each multiplication separately.

Example: $3 \times (2 + 4) = 3 \times 2 + 3 \times 4$

So the "3" can be "distributed" across the "2+4" into 3 times 2 and 3 times 4.



Have a try at these. Remember that you choose the level you start with. After a few questions, if it's too tricky, go back a level. If it's too easy, move onto the next one.



Challenge:

Remember to explain your reasoning!

>, < or =.					
Explain your reasoning.					
8×50 50×8					
8×50 80×5					
300 × 3 5 × 200					
Now apply your knowledge of the distributive law to answer these questions:					
6. Miss Green buys 7 boxes of pencils for her class. There are 84 pencils in a box. How many pencils did she buy in total?					
7. Apples cost 92p. Eve buys 6 apples. How much does she need to pay?					
8. Anya buys 9 tubes of sweets. There are 87 sweets in each tube. How many sweets does she have?					

Place one of these symbols in the circle to make the number sentence correct:

Lesson 3: Re-cap Compact Method

628 x 5	
	Remember:
628	In the compact method, we
<u>x 5</u>	multiply each digit by 5. So, it's
40	$8 \times 5 = 40$
100	$20 \times 5 = 100$
<u>3000</u>	$600 \times 5 = 3000$
3140	Then we add those numbers together to get our final answer.

Mild	Spicy	Hot
345 x 3	567 x 6	781 x 7
482 x 4	579 x 8	823 x 8
389 x 5	624 x 4	829 x 7
467 x 3	678 x 6	735 x 9
498 x 4	592 x 8	924 x 7
396 x 5	673 x 4	835 x 8
452 x 4	652 x 6	942 x 7
487 x 3	694 x 6	896 x 8

Challenge:

