Remember your times tables. Use a TT square if you need to.

Always start from the right. You are multiplying 4 x 6 and 20 x 6.

Try it like this as well in your head to check your answer!

Formal Written Columnar Methods

<u>Year 4:</u> Pupils should be taught multiply two-digit and three-digit numbers by a one-digit number using **formal written layout**.

24×6 beco	mes	Text	342 ×	7 b	eco	mes
2	4			3	4	2
×	6		×			7
1 4	4		2	3	9	4
2				2	1	
Answer: 1	144		Ans	wer	: 239	94

All digits must live at home. So if you multiply 2 x 7 you get 14.

The '1' is a ten and must be included in the tens column.

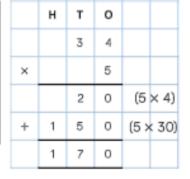
By writing it below the 'equals' you can count it later when you multiply the tens.

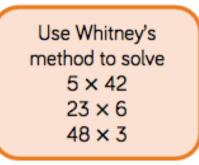
Bronze

Varied Fluency

Whitney uses place value counters to calculate 5 × 34

Tens	Ones
000	0000
000	0000
000	0000
000	0000
000	0000
<u></u>	\mathcal{D}





Ron also uses place value counters to calculate 5×34

Hundreds	Tens	Ones
	000	0000
	000	0000
	000	0000
	000	0000
	000	0000
0	<u>Q0</u>	\mathcal{D}

	н	т	0	
		3	4	
×			5	
	1	7	0	
	1	2		

Use Ron's method to complete:

	т	0
	4	3
×		3

	т	0
	3	6
×		4

	Т	0
	7	4
×		5

Silver



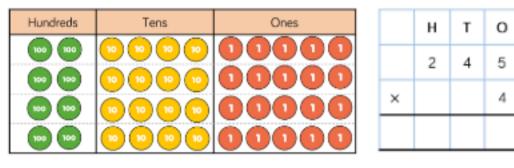
00

Complete the calculation.

Hundreds	Tens	Ones
100 100		
100 100		
100 100		

	н	т	0
	2	0	3
×			3

A school has 4 house teams. There are 245 children in each house team. How many children are there altogether?



Write the multiplication represented by the counters and calculate the answer using the formal written method.



Silver

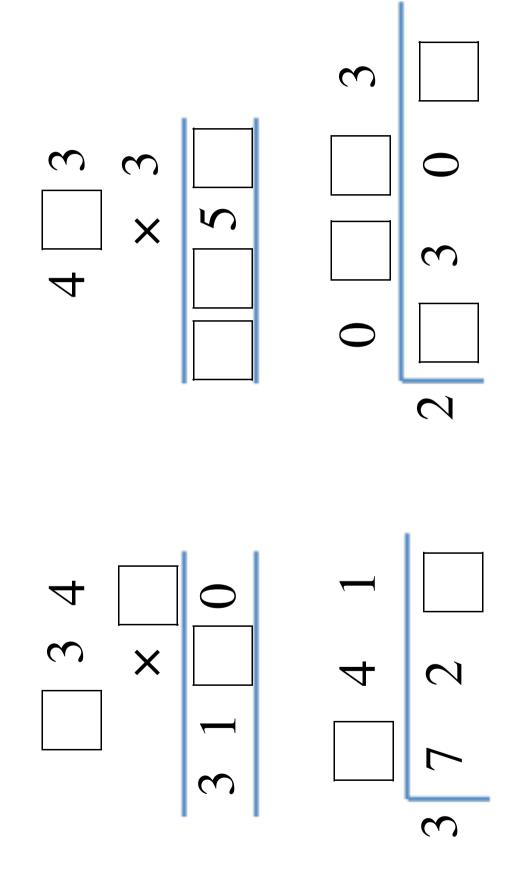
1) 493	2) 242	3) 242	4) 236
<u>x 9</u>	<u>x 8</u>	<u>x 9</u>	<u>x 9</u>
5) 442	6) 962	7) 401	8) 930
<u>x 7</u>	<u>x 2</u>	<u>x 1</u>	<u>x 7</u>
9) 527	10) 795	11) 889	12) 182
<u>x 6</u>	<u>x 6</u>	<u>x 3</u>	<u>x 6</u>

Gold

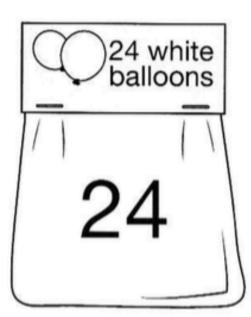
1) 6518	2) 3793	3) 1167	4) 3575
<u>x 7</u>	<u>x 9</u>	<u>x 5</u>	<u>x 6</u>
5) 7291	6) 3877	7) 1296	8) 8256
<u>x 2</u>	<u>x 4</u>	<u>x 2</u>	<u>x 4</u>
9) 6297	10) 7142	11) 5608	12) 4929
<u>x 6</u>	<u>x 6</u>	<u>× 6</u>	<u>x 7</u>

Growth Mindset Challenge





Gold challenge





Adam buys 6 bags of white balloons.

Chen buys 3 bags of red balloons.

Adam says,

'I have four times as many balloons as Chen.'

