Maths

Multiplication and Division

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Expanded Multiplication with Three-Digit Numbers

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Aim

- I can multiply larger numbers using expanded multiplication.

Success Criteria

- I can set out the calculation correctly.
- I can partition the calculation and multiply the ones, then the tens and finally the hundreds.
- I can add the three calculations together to find the answer.

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Loop Cards

	44	3(	8	30	6	7 x 3
	13	24	7	72	5	9 x 12
	12	6(	5	35	108	nine groups of three
	20	5(	8(	21	27	eight lots of five

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Expanded Multiplication

	9	6
x		7
	4	2
6	3	0
6	7	2

Lay out your calculation in a grid.

Work out 6 × 7 and write the answer here.

Work out 90 × 7 and write the answer here.

Add them together and write your answer here.

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Expanded Multiplication

	6	8
x		8
	6	4
4	8	0
5	14	4

Lay out your calculation in a grid.

Work out 8 × 8 and write the answer here.

Work out 60 × 8 and write the answer here.

Add them together and write your answer here.

→ If there are more than 9 tens, regroup them as hundreds and write them under the hundreds column, remembering to add them onto the total.

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Expanded Multiplication

	5	1	9
x			8
		7	2
		8	0
4	0	0	0
4	1	5	2

519 × 9 = 4152
Lay out your calculation in a grid.
This calculation has a number in the hundreds column, so we need an extra row.

Work out 9 × 8 and write the answer here.

Work out 10 × 8 and write the answer here.

Work out 500 × 8 and write the answer here.

Add them together and write your answer here. Don't forget to regroup if you need and write this under the next column, adding it onto the total.

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Expanded Multiplication

	2	6	9
x			3
		2	7
	1	8	0
	6	0	0
	8	0	7

269 × 3 = 807
Lay out your calculation in a grid.
This calculation has a number in the hundreds column, so we need an extra row.

Work out 9 × 3 and write the answer here.

Work out 60 × 3 and write the answer here.

Work out 200 × 3 and write the answer here.

Add them together and write your answer here. Don't forget to regroup if you need and write this under the next column, adding it onto the total.

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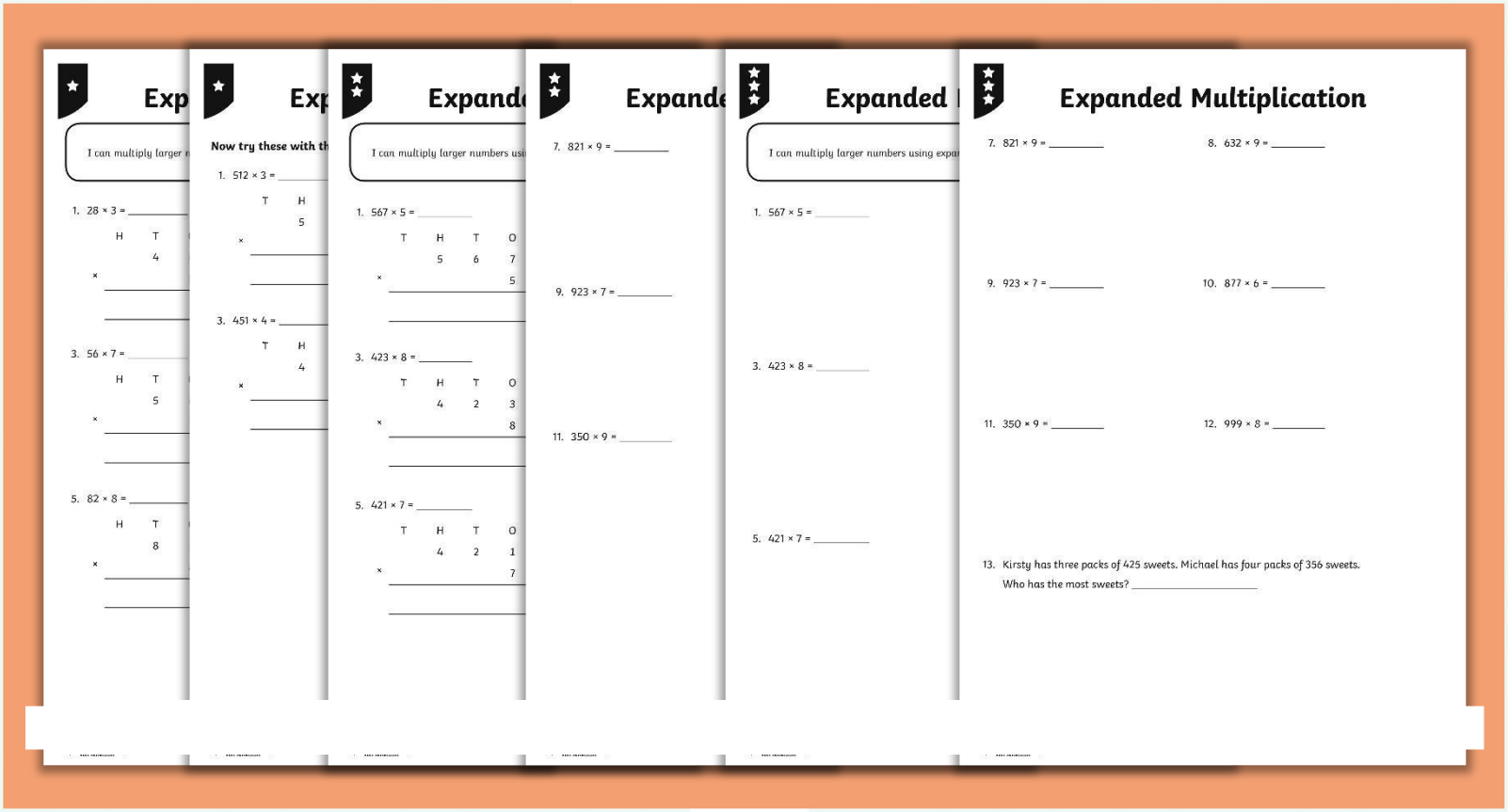
Expanded Multiplication Activities



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Who Has the Most?

152 × 6 = 912

Sophie has 152 packs of 6 stickers.

104 × 8 = 832

Abdul has 104 packs of 8 stickers.

223 × 4 = 892

William has 223 packs of 4 stickers.

Who has the most stickers?

Sophie has the most stickers.

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