

MULTIPLICATION - DAY 2

L.O: I can multiply 2 digit numbers by 2 digit numbers

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Starter:

Which one doesn't belong?

★

$$8 \times 12$$

★

$$32 \times 3$$

★

$$9 \times 11$$

★

$$16 \times 6$$

★ Explain your answer.

L.O: I can multiply 2 digit numbers by 2 digit numbers

Starter:

Which one doesn't belong?

★

$$8 \times 12$$

★

$$32 \times 3$$

★

$$9 \times 11$$

★

$$16 \times 6$$

9 x 11 doesn't belong as it has a product of 99, whereas 8 x 12, 32 x 3 and 16 x 6 all share the same product, 96.

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	H	T	O	
		2	1	
x		1	2	
				(21 x 2)
+				(21 x 10)

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	H	T	O	
		2	1	
×		1	2	
		4	2	(21 x 2)
+	2	1	0	(21 x 10)
	2	5	2	

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	H	T	O	
		2	3	
x		1	3	
				(23 x 3)
+				(23 x 10)

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	H	T	O	
		2	3	
x		1	3	
		6	9	(23 x 3)
+	2	3	0	(23 x 10)
	2	9	9	

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	H	T	O	
		2	4	
x		1	4	
+				

(24 x 4)

(24 x 10)

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	H	T	O	
		2	4	
×		1	4	
		9 ₁	6	(24 x 4)
+	2	4	0	(24 x 10)
	3 ₁	3	6	

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	H	T	O	
		2	5	
×		1	5	
				(25 x 5)
+				(25 x 10)

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	H	T	O	
		2	5	
x		1	5	
	1	2 ₂	5	(25 x 5)
+	2	5	0	(25 x 10)
	3	7	5	

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Activity 1:

Complete the calculations below.

	H	T	O	
		2	6	
×		1	7	
				(26 x 7)
+				(26 x 10)

	H	T	O	
		4	7	
×		1	9	
				(47 x 9)
+				(47 x 10)

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Activity 1:

Complete the calculations below.

	H	T	O	
		2	6	
×		1	7	
	1	8 ₄	2	(26 x 7)
+	2	6	0	(26 x 10)
	4 ₁	4	2	

	H	T	O	
		4	7	
×		1	9	
	4	2 ₆	3	(47 x 9)
+	4	7	0	(47 x 10)
	8	9	3	

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	H	T	O	
		2	4	
×		2	3	
+				

(24 x 3)

(24 x 20)

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	H	T	O	
		2	4	
x		2	3	
		7 ₁	2	(24 x 3)
+	4	8	0	(24 x 20)
	5 ₁	5	2	

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	TH	H	T	O	
			4	9	
x			2	7	
+					

(49 x 7

(49 x 20)

FLUENCY

L.O: I can multiply 2 digit numbers by 2 digit numbers

Complete the calculation below.

	TH	H	T	O	
			4	9	
×			2	7	
		3	4 ₆	3	
+		9 ₁	8	0	
	1	3 ₁	2	3	

(49 x 7)

(49 x 20)

PROBLEM SOLVING

L.O: I can multiply 2 digit numbers by 2 digit numbers

James says, "It's impossible to make 777 by multiplying two 2-digit numbers together."

Do you agree?

Explain your answer.



PROBLEM SOLVING

L.O: I can multiply 2 digit numbers by 2 digit numbers

James says, "It's impossible to make 777 by multiplying two 2-digit numbers together."

By using trial and error and then working through calculation to get closer to 777 as a product, I discovered that 777 can be made by multiplying 37 by 21.



REASONING

L.O: I can multiply 2 digit numbers by 2 digit numbers

Evaluation:



If you multiply an odd 2-digit number by an odd 2-digit number, the result is an odd number.

Is Astrobee's statement always, sometimes or never true?
Explain your answer.

REASONING

L.O: I can multiply 2 digit numbers by 2 digit numbers

Evaluation:

If you multiply an odd 2-digit number by an odd 2-digit number, the result is an odd number.



Astrobee's statement is always true – an odd number multiplied by an odd number results in an odd number as its product, as demonstrated by the examples above.

	TH	H	T	O	
			5	7	
x			2	9	
		5	1 ₆	3	
	1	1 ₁	4	0	
	1	6	5	3	

	TH	H	T	O	
			4	9	
x			2	7	
		3	4 ₆	3	
+		9 ₁	8	0	
	1	3 ₁	2	3	