

MULTIPLICATION - DAY 3

L.O: I can multiply 3 digit numbers by 2 digit numbers

FLUENCY

L.O: I can multiply 3 digit numbers by 2 digit numbers

Starter:

Which one doesn't belong?

★

$$623 \times 2$$

★

$$143 \times 8$$

★

$$178 \times 7$$

★

$$89 \times 14$$

★ Explain your answer.

FLUENCY

L.O: I can multiply 3 digit numbers
by 2 digit numbers

Starter:

Which one doesn't belong?



$$623 \times 2$$



$$143 \times 8$$



$$178 \times 7$$

$$89 \times 14$$

143 x 8 doesn't belong as its product is 1,144. Whereas, the other multiplication calculations share the same product, 1,246.

FLUENCY

L.O: I can multiply 3 digit numbers
by 2 digit numbers

Complete the calculation below.

	TH	H	T	O	
		1	2	3	
x			1	3	

(123 x 3)

(123 x 10)

FLUENCY

L.O: I can multiply 3 digit numbers by 2 digit numbers

Complete the calculation below.

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

(123 x 3)

(123 x 10)

FLUENCY

L.O: I can multiply 3 digit numbers by 2 digit numbers

Complete the calculation below.

	TH	H	T	O	
		1	2	2	
x			1	4	
					(122 x 4)
					(122 x 10)

FLUENCY

L.O: I can multiply 3 digit numbers by 2 digit numbers

Complete the calculation below.

	TH	H	T	O	
		1	2	2	
x			1	4	
		4	8	8	
	1	2	2	0	
	1	7 ₁	0	8	

(122 x 4)

(122 x 10)

FLUENCY

L.O: I can multiply 3 digit numbers
by 2 digit numbers

Complete the calculation below.

	TH	H	T	O	
		2	5	3	
x			1	4	
					(253 x 4)
					(253 x 10)

FLUENCY

L.O: I can multiply 3 digit numbers by 2 digit numbers

Complete the calculation below.

	TH	H	T	O	
		2	5	3	
x			1	4	
	1	0 ₂	1 ₁	2	(253 x 4)
	2	5	3	0	(253 x 10)
	3	5	4	2	

FLUENCY

L.O: I can multiply 3 digit numbers by 2 digit numbers

Complete the calculation below.

	TH	H	T	O	
		2	3	4	
x			2	6	

(234 x 6)

(253 x 10)

FLUENCY

L.O: I can multiply 3 digit numbers
by 2 digit numbers

Complete the calculation below.

	TH	H	T	O	
		2	3	4	
x			2	6	
	1	4 ₂	0 ₂	4	(234 x 6)
	4	6	8	0	(234 x 20)
	6 ₁	0	8	4	

FLUENCY

L.O: I can multiply 3 digit numbers by 2 digit numbers

Complete the calculation below.

	TH	H	T	O	
		2	2	7	
x			3	4	

(227 x 4)

(227 x 30)

FLUENCY

L.O: I can multiply 3 digit numbers by 2 digit numbers

Complete the calculation below.

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

(227 x 4)

(227 x 30)

FLUENCY

L.O: I can multiply 3 digit numbers by 2 digit numbers

Complete the calculations below.

	TH	H	T	O	
		3	2	5	
x			2	7	

(325 x 7)

(325 x 20)

	TH	H	T	O	
		3	2	5	
x			5	4	

(325 x 4)

(325 x 50)

FLUENCY

L.O: I can multiply 3 digit numbers by 2 digit numbers

Complete the calculations below.

	TH	H	T	O	
		3	2	5	
x			2	7	
	2	2 ₁	7 ₃	5	(325 x 7)
	6	5 ₁	0	0	(325 x 20)
	8	7	7	5	

	TH	H	T	O	
		3	2	5	
x			5	4	
	1	3 ₁	0 ₂	0	(325 x 4)
1	6 ₁	2 ₂	5	0	(325 x 50)
1	7	5	5	0	

PROBLEM SOLVING

L.O: I can multiply 3 digit numbers
by 2 digit numbers

Solve the following:



a) Jamal's local park is 127 m wide and 84 m long.
What is the total area of Jamal's park?

b) Ahmed's local park is 143 m wide and 77 m long.
What is the total area of Ahmed's park?



c) Which park has the largest area?
What is the difference between the area of each park?

PROBLEM SOLVING

L.O: I can multiply 3 digit numbers
by 2 digit numbers

- a) Jamal's local park is 127 m wide and 84 m long.
What is the total area of Jamal's park?

Jamal's park has a total area of 10,668 m², as $127 \times 84 = 10,668$.

- b) Ahmed's local park is 143 m wide and 77 m long.
What is the total area of Ahmed's park?

Ahmed's park has a total area of 11,011 m², as $143 \times 77 = 11,011$.

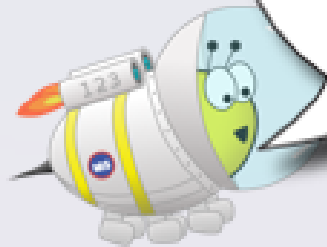
- c) Which park has the largest area?
What is the difference between the area of each park?

Ahmed's park is largest by 343 m², as $11,011 - 10,068 = 343$.

REASONING

L.O: I can multiply 3 digit numbers
by 2 digit numbers

Evaluation:



It's possible to have
a 3-digit product
when multiplying a
3-digit number by a
2-digit number.

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

REASONING

L.O: I can multiply 3 digit numbers
by 2 digit numbers

Evaluation:



It's possible to have
a 3-digit product
when multiplying a
3-digit number by a
2-digit number.

Astrobee's statement is never true. Even if you multiply the lowest value three-digit number by the lowest value two-digit number, the result is a four-digit number as $100 \times 10 = 1,000$. Any other possible multiplication calculation using a three-digit number by a two-digit number will result in a four-digit number or greater.