

## Introduction

**Write a story for the following multiplication:**

$$142 \times 12$$

**Then solve the calculation.**

## Introduction

**Write a story for the following multiplication:**

$$142 \times 12 = 1,704$$

**For example:**

**Bill the baker has received an order for 142 dozen muffins. There are 12 muffins in a dozen. How many muffins does he have to bake?**

**Tanya is organising the art cupboard. 142 paint brushes will fit in a box. She fills 12 boxes. How many paint brushes does she have?**

## Varied Fluency 1

Use the formal multiplication method to complete the calculation below.

		2	6	3
x			3	4
<hr/>				
<hr/>				
<hr/>				

$$263 \times 34 = \boxed{\phantom{0000}}$$

## Varied Fluency 1

Use the formal multiplication method to complete the calculation below.

		2	6	3
x			3	4
	1	0 <sub>2</sub>	5 <sub>1</sub>	2
	7 <sub>1</sub>	8	9	0
	8	9	4	2
		1		

$$263 \times 34 = 8,942$$



## Varied Fluency 2

Complete the calculations below.

A.

		3	5	2
x			4	3
<hr/>				
<hr/>				
<hr/>				
<hr/>				

B.

			4	1	2
x				3	4
<hr/>					
<hr/>					
<hr/>					
<hr/>					

Which has the larger answer?

## Varied Fluency 2

Complete the calculations below.

A.

		3	5	2
x			4	3
	1	0	5	6
1	4	0	8	0
1	5	1	3	6
		1		

B.

		4	1	2
x			3	4
	1	6	4	8
1	2	3	6	0
1	4	0	0	8
	1	1		

Which has the larger answer?

**A has the larger answer.**

## Varied Fluency 3

Lara says,



The area of the check-in zone is twice as big as the area of the information board.

365cm

✈️ DEPARTURES				
TIME	TO	FLIGHT	GATE	
20 20	LONDON	AV 237	17	
20 45	HELSINKI	BD 327	8	
20 55	MOSCOW	SQ 214	23	
21 15	PARIS	SG 394	12	
21 30	MILAN	HR 543	8	
21 40	AMSTERDAM	TY 339	11	
21 55	LOS ANGELES	AS 742	10	
22 05	CARACAS	DN 923	4	

94cm

		3	6	5
x			9	4

What is the area of the check-in zone?

## Varied Fluency 3

Lara says,



The area of the check-in zone is twice as big as the area of the information board.

365cm

✈️ DEPARTURES				
TIME	TO	FLIGHT	GATE	
20 20	LONDON	AV 237	17	
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94cm

		3	6	5
x			9	4
		1	4	6
	3	2	8	5
			2	2
	3	4	3	1
		5	4	

What is the area of the check-in zone?  $34,310 \times 2 = 68,620\text{cm}^2$

NOW COMPLETE THE VARIED FLUENCY ACTIVITY, CHOOSING EITHER DEVELOPING, EXPECTED OR GREATER DEPTH.



## Problem Solving 1

Gemma and Olivier are working on the same calculations. They get different answers.

Gemma

		4	0	6
x			2	4
<hr/>				
	1	6	0 <sub>2</sub>	4
	8	0 <sub>1</sub>	2	0
<hr/>				
	9	6	2	4
<hr/>				

Oliwier

		4	0	6
x			2	4
<hr/>				
	1	6	2 <sub>2</sub>	4
	8	1 <sub>1</sub>	2	0
<hr/>				
	9	7	4	4
<hr/>				

Who is correct?

## Problem Solving 1

Gemma and Olivier are working on the same calculations. They get different answers.

Gemma

		4	0	6
x			2	4
<hr/>				
	1	6	0 <sub>2</sub>	4
	8	0 <sub>1</sub>	2	0
<hr/>				
	9	6	2	4
<hr/>				

Oliwier

		4	0	6
x			2	4
<hr/>				
	1	6	2 <sub>2</sub>	4
	8	1 <sub>1</sub>	2	0
<hr/>				
	9	7	4	4
<hr/>				

Who is correct?

**Oliwier is correct.  $406 \times 24 = 9,744$ .**

## Problem Solving 2

Complete the calculation so that calculation A is greater than calculation B.

A.

		6	1	3
x			3	4
<hr/>				
<hr/>				
<hr/>				

B.

		<input type="text"/>	<input type="text"/>	<input type="text"/>
x			<input type="text"/>	<input type="text"/>
<hr/>				
<hr/>				
<hr/>				

## Problem Solving 2

Complete the calculation so that calculation A is greater than calculation B.

A.

		6	1	3
x			3	4
	2	4	5 <sub>1</sub>	2
1	8	3	9	0
2	0	8	4	2
	1		1	

B.

		6	1	2
x			2	5
	3	0	6 <sub>1</sub>	0
1	2	2	4	0
1	5	3	0	0
		1		

Various possible answers, for example:

$$612 \times 25 = 15,300$$



## Reasoning 1

Karl is painting his door red. One tin covers an area of  $10,000\text{cm}^2$ . The door is  $198\text{cm} \times 76\text{cm}$ .

x				
<hr/>				
<hr/>				
<hr/>				
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He thinks he needs to buy 15 tins. Is he correct? Explain your answer.

## Reasoning 1

Karl is painting his door red. One tin covers an area of  $10,000\text{cm}^2$ . The door is  $198\text{cm} \times 76\text{cm}$ .

		1	9	8
x			7	6
	1	1 <sub>5</sub>	8 <sub>4</sub>	8
1	3 <sub>6</sub>	8 <sub>5</sub>	6	0
1	5	0	4	8
	1	1		



He thinks he needs to buy 15 tins. Is he correct? Explain your answer. Karl is not correct because ...

## Reasoning 1

Karl is painting his door red. One tin covers an area of  $10,000\text{cm}^2$ . The door is  $198\text{cm} \times 76\text{cm}$ .

		1	9	8
x			7	6
	1	1 <sub>5</sub>	8 <sub>4</sub>	8
1	3 <sub>6</sub>	8 <sub>5</sub>	6	0
1	5	0	4	8
	1	1		



He thinks he needs to buy 15 tins. Is he correct? Explain your answer.  
**Karl is not correct because  $198 \times 76 = 15,048$  so Karl needs to buy 2 tins.**

**NOW COMPLETE REASONING + PROBLEM SOLVING ACTIVITY,  
CHOOSING EITHER DEVELOPING, EXPECTED OR GREATER DEPTH.**



**IF YOU HAVE TIME, COMPLETE THE  
HOMEWORK/EXTENSION ACTIVITY,  
CHOOSING EITHER DEVELOPING,  
EXPECTED OR GREATER DEPTH.**

**DON'T FORGET TO MARK YOUR ANSWERS!**