



Factory Decimals

I can multiply one-digit numbers with up to two decimal places by whole numbers.



Use the formal written method of long multiplication to answer these word problems:

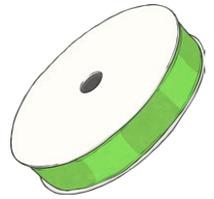
- 1 The Twinkl Party Factory produces 3.52m of wrapping paper every second. How many metres of wrapping paper does the factory produce in 45 seconds?

			.	
x			.	
<hr/>				
			.	
			.	
			.	



- 2 The Twinkl Party Factory produces 4.26m of ribbon every second. How many metres of ribbon does the factory produce in 32 seconds?

			.	
x			.	
<hr/>				
			.	
			.	
			.	



- 3 The Twinkl Party Factory produces 5.44m of sticky tape every minute. How many metres of sticky tape does the factory produce in 28 minutes?

			.	
x			.	
<hr/>				
			.	
			.	
			.	



- 4 The Twinkl Party Factory produces 6.65m of flag bunting every minute. How many metres of flag bunting does the factory produce in 53 minutes?

			.	
x			.	
<hr/>				
			.	
			.	
			.	





Factory Decimals Answers

1 158.4m

	2	2	1	
		3	•	5 2
x			4	5
	1	7	•	6 0
1	4	0	•	8 0
1	5	8	•	4 0
				1

2 136.32m

		1	1	
		4	•	2 6
x			3	2
		8	•	5 2
1	2	7	•	8 0
1	3	6	•	3 2
				1 1

3 152.32m

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

4 352.45m

	3	1,2	1	
		6	•	6 5
x			5	3
	1	9	•	9 5
3	3	2	•	5 0
3	5	2	•	4 5
				1 1



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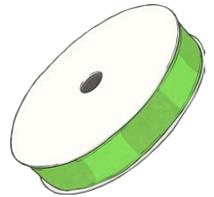
- 1 The Twinkl Party Factory produces 3.68m of wrapping paper every second. How many metres of wrapping paper does the factory produce in 46 seconds?

			.	
x			.	
<hr/>				
			.	
			.	
			.	



- 2 The Twinkl Party Factory produces 4.36m of ribbon every second. How many metres of ribbon does the factory produce in 37 seconds?

			.	
x			.	
<hr/>				
			.	
			.	
			.	



- 3 The Twinkl Party Factory produces 5.47m of sticky tape every minute. How many metres of sticky tape does the factory produce in 29 minutes?

			.	
x			.	
<hr/>				
			.	
			.	
			.	



- 4 The Twinkl Party Factory produces 6.69m of flag bunting every minute. How many metres of flag bunting does the factory produce in 58 minutes?

			.	
x			.	
<hr/>				
			.	
			.	
			.	





Factory Decimals Answers

1 $169.28m$

	2	4,3	4	
		3	• 6	8
x			4	6
	2	2	• 0	8
1	4	7	• 2	0
1	6	9	• 2	8

2 $161.32m$

	1	2,1	4	
		4	• 3	6
x			3	7
	3	0	• 5	2
1	3	0	• 8	0
1	6	1	• 3	2

1

3 $158.63m$

		4,1	6	
		5	• 4	7
x			2	9
	4	9	• 2	3
1	0	9	• 4	0
1	5	8	• 6	3

1

4 $388.02m$

	3	5,4	7	
		6	• 6	9
x			5	8
	5	3	• 5	2
3	3	4	• 5	0
3	8	8	• 0	2

1



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Use the formal written method of long multiplication to answer these word problems:

1 The Twinkl Party Factory produces 7.87m of wrapping paper every second. How many metres of wrapping paper does the factory produce in 67 seconds?

			•	
×				
			•	
			•	
			•	



2 The Twinkl Party Factory produces 6.98m of ribbon every second. How many metres of ribbon does the factory produce in 78 seconds?

			•	
×				
			•	
			•	
			•	



3 The Twinkl Party Factory produces 9.49m of sticky tape every minute. How many metres of sticky tape does the factory produce in 89 minutes?

			•	
×				
			•	
			•	
			•	



4 The Twinkl Party Factory produces 8.66m of flag bunting every minute. How many metres of flag bunting does the factory produce in 93 minutes?

			•	
×				
			•	
			•	
			•	





Factory Decimals Answers

1 527.29m

	5	6,4	4	
		7	• 8	7
x			6	7
	5	5	• 0	9
4	7	2	• 2	0
5	2	7	• 2	9

1

2 544.44m

	6	7,5	6	
		6	• 9	8
x			7	8
	5	5	• 8	4
4	8	8	• 6	0
5	4	4	• 4	4

1 1 1

3 844.61m

	3	4,7	8	
		9	• 4	9
x			8	9
	8	5	• 4	1
7	5	9	• 2	0
8	4	4	• 6	1

1 1

4 805.38m

	5	1,5	1	
		8	• 6	6
x			9	3
	2	5	• 9	8
7	7	9	• 4	0
8	0	5	• 3	8

1 1 1