



Year Five Maths Lesson 3



Fluency Starter

- Keep up your daily practice of 5 a day <https://corbettmathsprimary.com/5-a-day/> and challenge yourself to Bronze, Silver, Gold or Platinum!
- Or Complete Flashback 4 for your daily starter (on the next slide).
- Log on to Doodlemaths for 15 minutes each day and try and keep in the Green Zone.
- There are also some Maths activities on Purple Mash to complete.



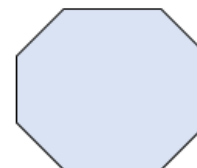
Fluency Starter

Flashback

4

Year 5 | Week 3 | Day 2

- 1) Add 2.6 to 3.17
- 2) Work out $5.28 - 3.59$
- 3) Write $\frac{96}{300}$ as a decimal.
- 4) Add together $\frac{3}{5}$ and $\frac{3}{10}$





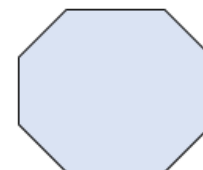
Fluency Starter Answers

Flashback 4

Year 5 | Week 3 | Day 2

1) Add 2.6 to 3.17

5.77



2) Work out $5.28 - 3.59$

1.69

3) Write $\frac{96}{300}$ as a decimal.

0.32

4) Add together $\frac{3}{5}$ and $\frac{3}{10}$

$\frac{9}{10}$



Lesson Aims

- I can multiply 4 digits by 2 digits
- Watch this video
- <https://vimeo.com/413579403>

Multiply 4-digits by 2-digits

1 Complete the multiplication.

			1	2	3	4	
	×				2	1	
			1	2	3	4	
		2	4	6	8	0	

$$(1,234 \times \boxed{})$$

$$(1,234 \times \boxed{})$$

2 Tommy is calculating $1,234 \times 26$

a) Complete his working out.

			1	2	3	4	
	×				2	6	
			7	4	0	4	
			2	4	6	8	0

$$\left(\begin{array}{|c|} \hline \\ \hline \end{array} \times \begin{array}{|c|} \hline \\ \hline \end{array} \right)$$

$$\left(\begin{array}{|c|} \hline \\ \hline \end{array} \times \begin{array}{|c|} \hline \\ \hline \end{array} \right)$$

b) Fill in the grid to check Tommy's working is accurate.

You may use place value counters to help.

×	1,000	200	30	4
20				
6				



3

Rosie is calculating $2,541 \times 42$

Here is Rosie's working.

2 5 4 1	
× 4 2	
4 ₁ 0 8 2	(2,541 × 2)
8 ₂ 0 ₁ 6 4	(2,541 × 40)
1 ₁ 2 1 ₁ 4 6	

a) Rosie has made two mistakes. What are they?

3 b) What is the correct answer?



4

Work out the multiplications.

a) $4,284 \times 23$

b) $2,142 \times 46$

What do you notice?



5

A machine makes 2,734 boxes every hour.

The machine works for 3 hours each day.

a) How many boxes will it make in 12 days?

b) Compare methods with a partner. Were there any other ways you could have worked out the answer?



6

Work out $378 \times 7 \times 12$

Show your method clearly.

--

A horizontal row of six light blue rectangular boxes, each containing a black number from 1 to 6. The boxes are separated by small gaps.

- a) Using all the digit cards, create 4 different calculations and work out the answer to each.
- b) Write your answers in ascending order.

c) What is the smallest product that can be made?



8

Amir scores 4,680 points in a computer game for 12 games in a row.
Whitney scores 2,512 points every game for 24 games.

Who scores more points?

How many more?



Fluency Activity

- See activity sheet Day 2
- Complete as many questions as you are able.



Fluency Activity Answers

Multiply 4-digits by 2-digits

White
Rose
Maths

- 1 Complete the multiplication.

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

$$(1,234 \times 1)$$

$$(1,234 \times 20)$$

- 2 Tommy is calculating $1,234 \times 26$

- a) Complete his working out.

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

$$(1,234 \times 6)$$

$$(1,234 \times 20)$$

- b) Fill in the grid to check Tommy's working is accurate.
You may use place value counters to help.

x	1,000	200	30	4
20	20,000	4,000	600	80
6	6,000	1,200	180	24

- 3 Rosie is calculating $2,541 \times 42$
Here is Rosie's working.

	2	5	4	1	
x			4	2	
	4	0	8	2	(2,541 × 2)
	8	0	6	4	(2,541 × 40)
	1	2	1	4	6

- a) Rosie has made two mistakes. What are they?

She hasn't correctly exchanged.
She has multiplied by 4 not 40

- b) What is the correct answer?

106,722

- 4 Work out the multiplications.

a) $4,284 \times 23$

b) $2,142 \times 46$

	4	2	8	4	
x			2	3	
	1	2	8	5	2
	8	5	6	8	0
	9	8	5	3	2

What do you notice?



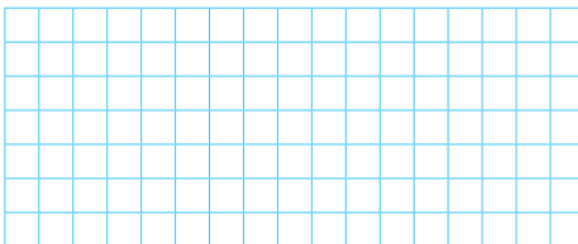
Fluency Activity Answers

- 5 A machine makes 2,734 boxes every hour.
The machine works for 3 hours each day.
a) How many boxes will it make in 12 days?

98,424

- b) Compare methods with a partner. Were there any other ways you could have worked out the answer?

- 6 Work out $378 \times 7 \times 12$
Show your method clearly.



31,752

7

1	2	3	4	5	6
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×

- a) Using all the digit cards, create 4 different calculations and work out the answer to each.

Various answers.

- b) Write your answers in ascending order.

- c) What is the smallest product that can be made?

31,928

- 8 Amir scores 4,680 points in a computer game for 12 games in a row.
Whitney scores 2,512 points every game for 24 games.

Who scores more points?

Amir: 56,160

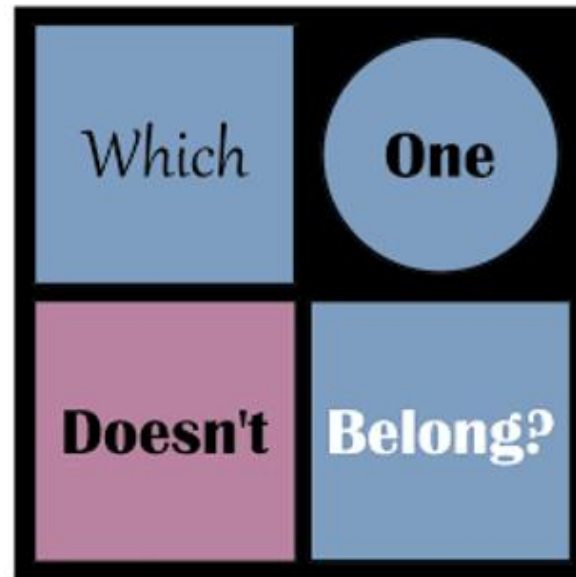
Whitney: 60,288

How many more?

4,128



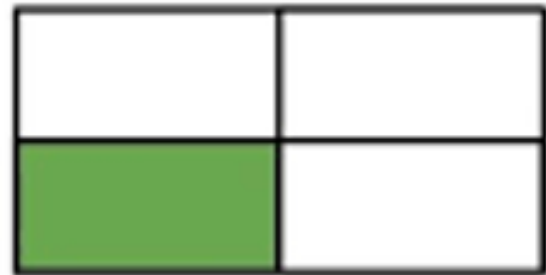
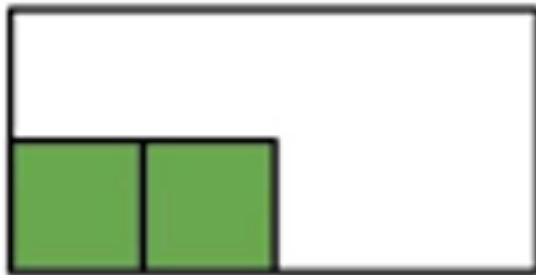
Problem Solving





Problem Solving

- How many ways can you find?





Problem Solving

- How many different ways did you find?
- Can you explain your reasoning?