



Year Five Maths Lesson 5



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.

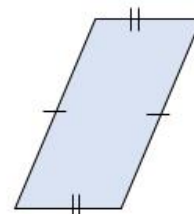


Fluency Starter

Flashback 4

Year 5 | Week 2 | Day 5

- 1) Work out $5.2 - 3.4$
- 2) Add 0.503 to 0.305
- 3) Round 5.107 to the nearest tenth
- 4) Work out 57×24





Fluency Starter Answers

Flashback 4

Year 5 | Week 2 | Day 5

1) Work out $5.2 - 3.4$

1.8

2) Add 0.503 to 0.305

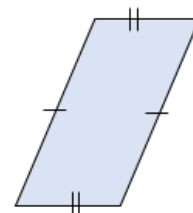
0.808

3) Round 5.107 to the nearest tenth

5.1

4) Work out 57×24

1368





Lesson Aims

- I can make a sequence with decimal numbers



Fluency

Decimal sequences

What number does this represent?

- 1 Esther has made a sequence with place value counters.

a) Write the numbers she has made.

Ones	Tenths
1 1 1	0.1 0.1 0.1

Ones	Tenths
1 1 1	0.1 0.1 0.1 0.1 0.1

Ones	Tenths
1 1 1	0.1 0.1 0.1 0.1 0.1 0.1 0.1



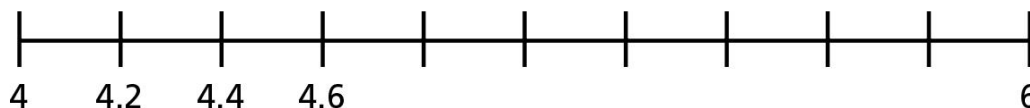
Fluency

Can you spot the pattern?

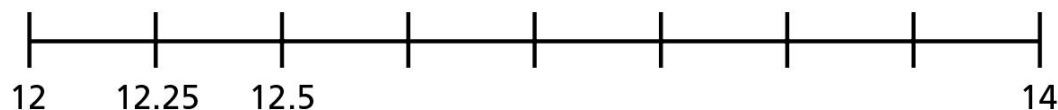
2

Complete the number lines.

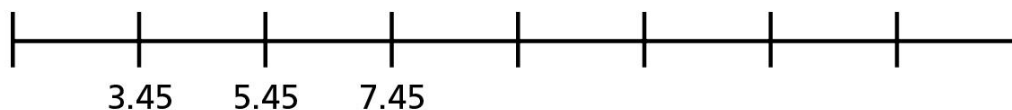
a)



b)



c)



Discuss with your partner how each number line increases.



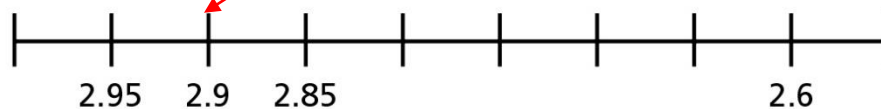


Fluency

What value are you taking away each time?

3

Complete the number line.



How is this number line different from those in question 2?





Fluency

Add 0.70 to £2.80

4

Rosie saves money in her money box.

Each day she puts in 70 pence.

At the start of the week there is £2.80 in her money box.



a) Complete the table to show how much is in the money box at the end of each day.

Day	Mon	Tues	Wed	Thur	Fri	Sat	Sun
Money in money box							

b) Rosie wants to buy a book costing £10

For how many more days does Rosie need to save 70p?



Fluency

How many times does 75p go into £12?

5

Dexter has £12 on Monday morning.

Every day he spends 75p on a snack.

On what day of the week will he run out of money?





Fluency

How many are you adding or taking away each time?

6

Write the rule and the next four terms in each sequence.

a) The rule is _____.

2.36	2.39	2.42				
------	------	------	--	--	--	--

b) The rule is _____.

15.6	16.1	16.6				
------	------	------	--	--	--	--

c) The rule is _____.

19	18.4	17.8				
----	------	------	--	--	--	--

d) The rule is _____.

10.35	10.15	9.95				
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Fluency

A problem solving challenge



7

Mo and Eva are making number sequences.

a) Mo is adding 1.5 each time.

He starts with the number 3.8

What is the first number greater than 12 that he makes?

b) Will the number 15.7 be in Mo's sequence?



c) Eva's sequence decreases by 2 hundredths each time.

She picks a number to start with.

What is the difference between the 3rd and 6th number in her sequence?





Fluency Activity

- See activity sheet Day 5
- Complete as many questions as you are able.



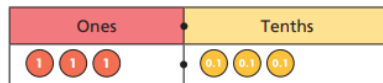
Fluency Activity Answers

Decimal sequences

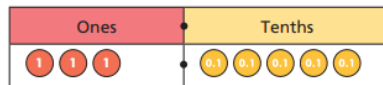


- 1 Esther has made a sequence with place value counters.

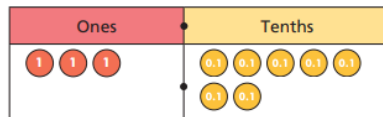
a) Write the numbers she has made.



3.3

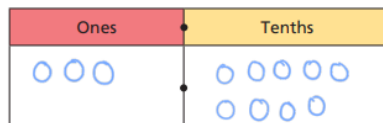


3.5



3.7

b) She adds the same number of counters again.
Draw counters to show the number she has made.



c) She adds the same number of counters again.
What number is shown in her chart now?

4.1

d) Explain the pattern of numbers that Esther has made.

- 2 Complete the number lines.

a)



b)



c)



Discuss with your partner how each number line increases.

- 3 Complete the number line.



How is this number line different from those in question 2?



Fluency Activity Answers

- 4 Rosie saves money in her money box.

Each day she puts in 70 pence.

At the start of the week there is £2.80 in her money box.



- a) Complete the table to show how much is in the money box at the end of each day.

Day	Mon	Tues	Wed	Thur	Fri	Sat	Sun
Money in money box	£3.50	£4.20	£4.90	£5.60	£6.30	£7	£7.70

- b) Rosie wants to buy a book costing £10

For how many more days does Rosie need to save 70p?

4

- 5 Dexter has £12 on Monday morning.

Every day he spends 75p on a snack.

On what day will he run out of money?

Tuesday

- 6 Write the rule and the next four terms in each sequence.

- a) The rule is add 0.03.

2.36	2.39	2.42	2.45	2.48	2.51	2.54
------	------	------	------	------	------	------

- b) The rule is add 0.5.

15.6	16.1	16.6	17.1	17.6	18.1	18.6
------	------	------	------	------	------	------

- c) The rule is subtract 0.6.

19	18.4	17.8	17.2	16.6	16	15.4
----	------	------	------	------	----	------

- d) The rule is subtract 0.2.

10.35	10.15	9.95	9.75	9.55	9.35	9.15
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- 7 Mo and Eva are making number sequences.

- a) Mo is adding 1.5 each time.

He starts with the number 3.8

What is the first number greater than 12 that he makes?

12.8

- b) Will the number 15.7 be in Mo's sequence?

- c) Eva's sequence decreases by 2 hundredths each time.

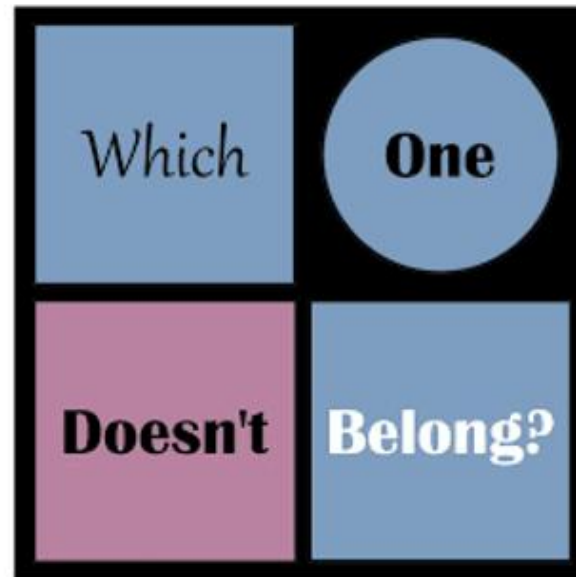
She picks a number to start with.

What is the difference between the 3rd and 6th number in her sequence?

0.06



Problem Solving





Problem Solving

- How many ways can you find?

0.5	0.25
0.75	0.3



Problem Solving

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