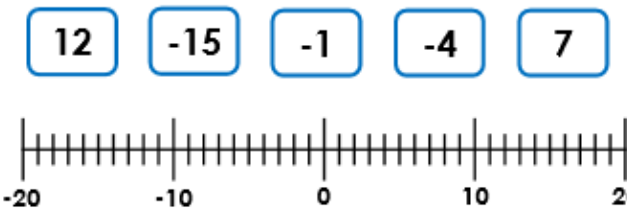


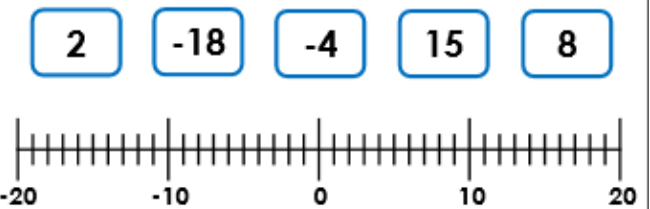
Week 10

Lesson 1

5a. Write the numbers below on the number line.



5b. Write the numbers below on the number line.



7a. Identify the coldest temperature in each set of data and mark it on the number line below.

- A. -28 30 -21 17 -10 28
- B. 9 21 -17 -23 29 -21

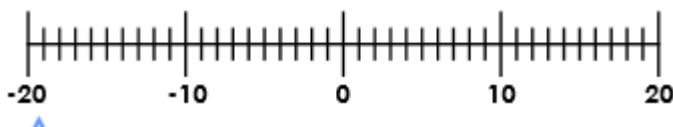


7b. Identify the coldest temperature in each set of data and mark it on the number line below.

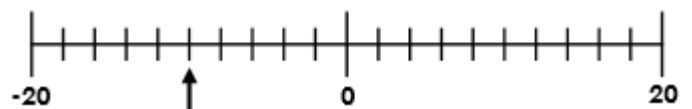
- A. -17 -12 12 -8 15 19
- B. 11 13 -9 -5 16 -3



6a. If the temperature in Leeds is 18°C and the temperature in Helsinki is -13°C , what is the difference between the two temperatures? Use the number line to help.

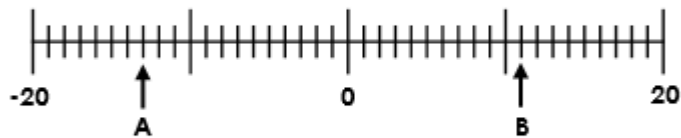


8b. True or false? The arrow is pointing to -5 on the number line below.



Challenge

5a. Hannah thinks that the number that lies halfway between A and B is 0.



Is she correct? Prove it.



R

6a. Ben had £28 in his bank account. On Tuesday, his phone and broadband bills came out. His bank account is now -£16. If the phone bill was £25, how much was Ben's broadband bill?

Use the number line below for support.

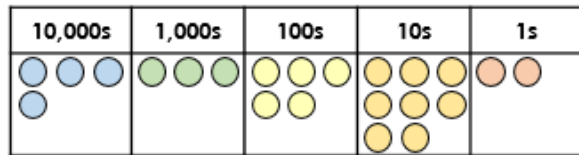


Lesson 2

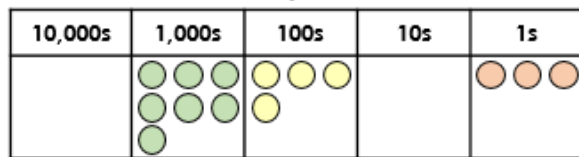
Addition:

For the first two questions use column addition also.

5a. Use the place value counters to add the numbers below.

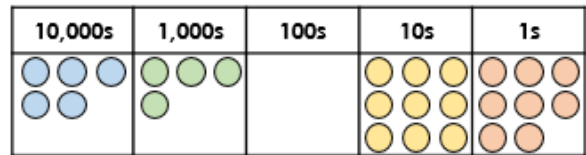


+

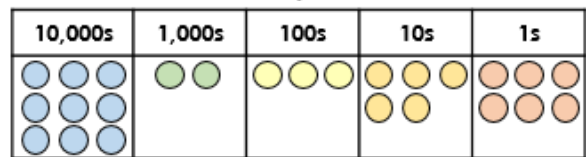


VF

5b. Use the place value counters to add the numbers below.



+



VF

6a. True or false?

	6	5	2	1	8
		2	7	0	3
+	3	0	1	9	2
	8	8	1	1	3
		1	1	1	



VF

6b. True or false?

		3	7	4	9
	5	1	5	7	7
+	2	7	3	0	3
	8	2	6	2	9
	1	1	1	1	



VF

Subtraction:

5a. Calculate the missing answer.

	3	8	1	6	4
-	1	7	4	0	8



VF

5b. Calculate the missing answer.

	4	6	0	8	1
-	2	9	3	5	7



6a. True or false?

	9	4	1	7	3
-	1	8	2	6	5
	8	5	9	0	8



6b. True or false?

	5	2	1	0	9
-	2	9	7	2	1
	7	2	6	2	8



Challenge

4a. A charity want to raise £9,559.

They raise £4,522 in the first month.

They raise two thousand, six hundred and twenty-five pounds less in the second month.

In the third month, they raise £1,540 more than what they raised in the second month.

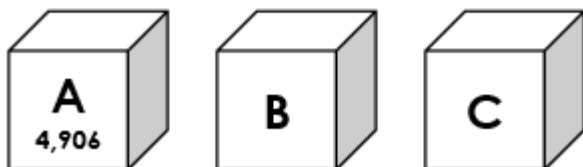
Does the charity reach their goal?



PS

5a. Jack is organising his sticker collection. He has 9,292 stickers in total.

Box A has 4,906 stickers. Box C has 1,208 fewer stickers than box A.



How many stickers are in box B?
Convince me.

Lesson 3

5a. Match the number to its multiple.

Number	Multiple
6	27
8	36
9	32



VF

5b. Match the number to its multiple.

Number	Multiple
12	99
11	40
4	72



6a. True or false?

81 is a multiple of 8.

6b. True or false?

108 is a multiple of 12.

7a. Complete the sequence of multiples.

42 56 63



VF

7b. Complete the sequence of multiples.

36 48 84



VF

8a. Fill in the table below with two possible multiples for each number.

Number	Multiples	
7	<input type="text"/>	<input type="text"/>
9	<input type="text"/>	<input type="text"/>
12	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	<input type="text"/>

8b. Fill in the table below with two possible multiples for each number.

Number	Multiples	
8	<input type="text"/>	<input type="text"/>
11	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>
9	<input type="text"/>	<input type="text"/>

Challenge

4b. Alex is thinking of a number.



My number is a multiple of 11 and 2. It is even and between 20 and 50.

What could his number be?

Is there only one answer?



PS

5b. Below is a section of a hundred square.

62	63	64
72	73	74
82	83	84

Why are some of the numbers shaded?
Why do some of the numbers have circles around them?



Lesson 4

5a. Draw lines to match the factor pairs of 16. Which pair is the odd one out?

4	6
3	8
2	4



VF

6a. True or false? All of these numbers are factors of 22.

4	1	22
2	6	11



7a. Circle the numbers that are NOT factors of 14.

7	1	4
6	14	
2		



8a. Complete the missing factors of 27.

1			27
---	--	--	----

5b. Circle the common factors of 12 and 20 by systematically checking each times table.

1 2 3 4 5 6 7 9 10



VF

6b. Complete the number sentences with the missing common factor.

$$\square \times 7 = 56$$



$$64 \div \square = 8$$



VF

7b. Match the pairs of numbers to their common factor. You may want to draw arrays to help you.

24 and 64 12

30 and 54 8

36 and 48 6



8b. Write all the common factors for the numbers below.

24

40

Challenge

5a. Ella says,



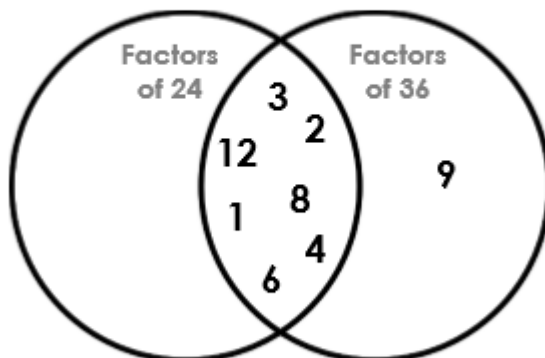
The number 4 is
the largest
common factor of
16 and 24.

Is Ella correct? Prove it by working systematically through the times tables.



5

6a. Ashton has sorted some factors into a Venn diagram by systematically checking each times table.



Explain the mistake that he has made.



Lesson 5

5a. Circle the numbers that have 2 as a prime factor.

4, 5, 9, 18, 29, 32



VF

5b. Circle the numbers that have 5 as a prime factor.

2, 13, 15, 23, 30, 43



VI

6a. Which of the following are composite numbers that have 7 as a prime factor?

89	17	14
32	49	7



VF

6b. Which of the following are composite numbers that have 11 as a prime factor?

11	66	100
28	37	44



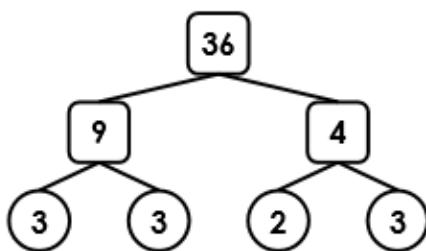
VI

7a. Circle the numbers which are in the wrong place.

Prime Factor of 30	Not a Prime Factor of 30
2	30
4	6
5	15
10	3

8a. True or false?

The factor tree below is correct.

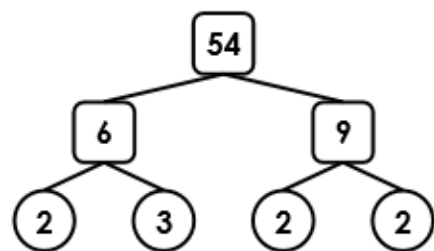


7b. Circle the numbers which are in the wrong place.

Prime Factor of 42	Not a Prime Factor of 42
21	2
7	28
3	35
14	4

8b. True or false?

The factor tree below is incorrect.



Challenge

4a. Choose from the digit cards below to create composite numbers up to 50 that have a prime factor of 2.



Find all the possibilities.



PS

5a. Place the numbers below on the Venn diagram.

Prime factors
of 20

Prime factors
of 30

