# <u>Day 1</u>

# Fab four!

1.) 285 x 2.4=

1.) 200 x 2.4-

2.) <> or =

7/10 0.78

3.) 10mm = cm

4.) factors of 16

Mild

1.) 28 x4=

2.) <> or =

1/2 or 3/4

3.) 10mm = cm

4.) 5 x9=

# Day 2 Fab four!

- 1.) 322x 1.4=
- 2.) <> or =

2/5 0.48

- 3.) 100mm = cm
- 4.) factors of 25

Mild

1.) 24 x3=

2.) <> or =

1/4 or 1/2

3.) 20mm = cm

4.) 6 x9=

# Day 3 Fab four!

- 1.) 850x 3.1=
- 2.) <> or =

4/5 80%

- 3.) 1000mm = cm
- 4.) factors of 36

Mild

1.) 23 x7=

2.) <> or =

1/4 or 3/4

3.) 30mm = cm

4.) 12 ×9=

# **Day 4**

# Fab four!

1.) 620x 2.1=

2.) <> or =

6/8 80%

3.) 6mm = cm

4.) factors of 30

Mild

1.) 27 ×5=

2.) <> or =

1/3 or 2/3

3.) 50mm = cm

4.) 11 ×9=

# <u>Day 5</u>

# Fab four!

1.) 615x 2.2=

3/9 30%

3.) 17mm = cm

4.) factors of 24

Mild

1.) 32 x5=

2.) <> or =

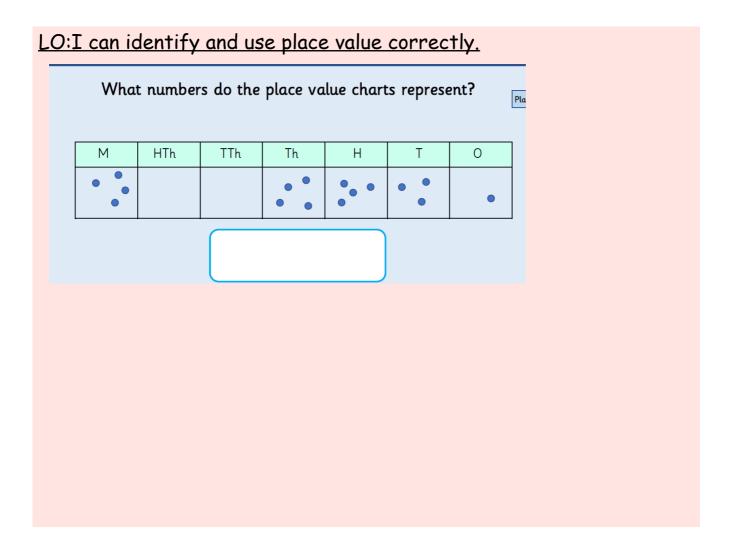
1/2 or 2/3

3.) 100mm = cm

4.) 6 x9=

LO:I can identify and use place value correctly.

Key vocabulary



# LO:I can identify and use place value correctly. M HTh TTh Th H T O

## LO: I can identify and use place value correctly.

#### Match the words to the numbers in digits.

one million, four hundred and nine thousand, two hundred and sixteen

one hundred thousand, nine hundred and fifteen

one million, nine hundred and four thousand, five hundred and forty-eight.

one million, four hundred and nine thousand, six hundred and twelve. 1,419,216

Р

1,409,216

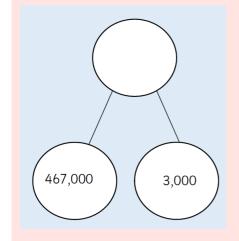
10,915

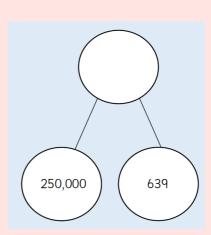
100,915

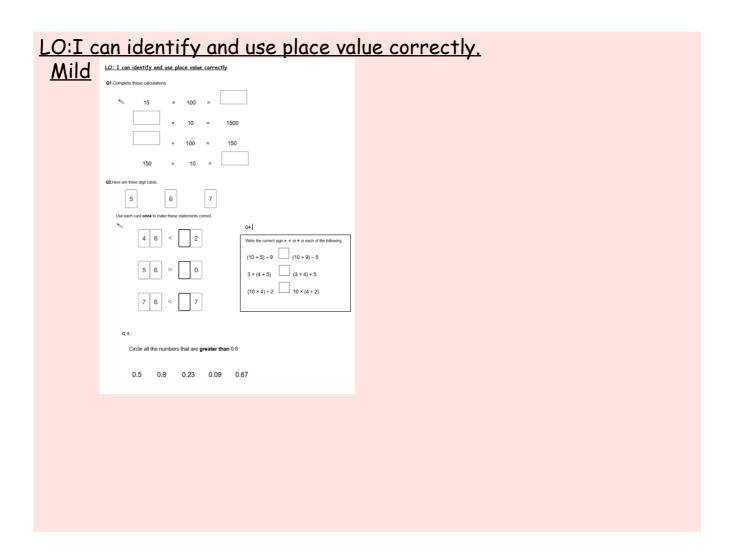
1,904,548

1,409,612

## LO:I can identify and use place value correctly.



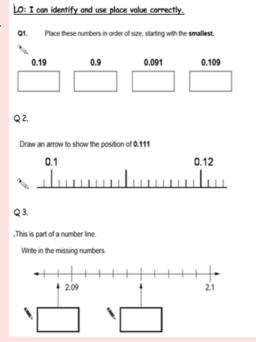


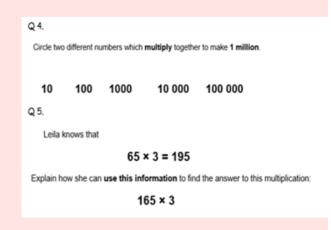


Test  Till in the blanks based on this number:  Place Va	· Oses negative numbers in context and calculates intervals across o (adds and
9 034 675	4)
The digit is in the ten thousands place.	-80, -40, 10, 50  What is wrong with this sequence of numbers?
The digit 6 stands for	
The digit 9 is in the place.	
2) Put these numbers in order, from smallest to largest.	
8-8, 8-08, 8-88, 8-808, 8-088	5) Create seven digit numbers where the digit sum is six and the tens of thousands digit is two. What are
	the largest and the smallest numbers you can create?
3) Write the numbers in words: 3 678 967	
9 768 506	

## LO: I can identify and use place value correctly.

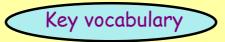
<u>Hot</u>

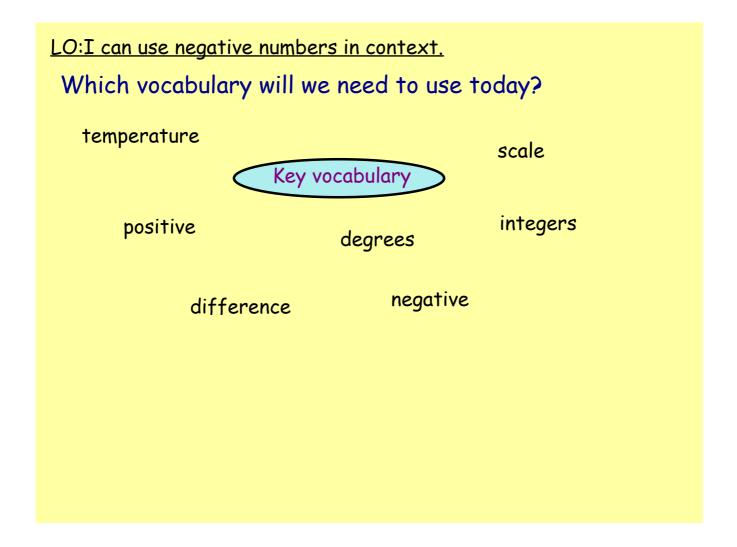




LO: I can use negative numbers in context.

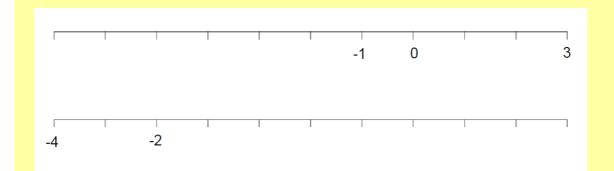
Which vocabulary will we need to use today?



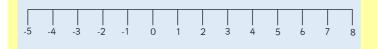


## LO:I can use negative numbers in context.

Can we complete this numberline?

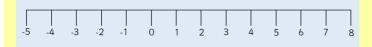


LO: I can use negative numbers in context.



If the temperature is -2 but it gets 3 degrees warmer, what will the new temperature be?

#### LO: I can use negative numbers in context.



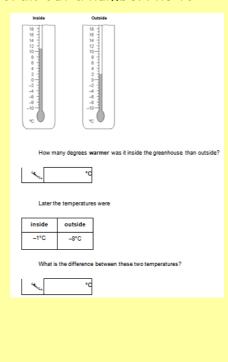
# LO:I can use negative numbers in context. Answer the problems on your sheet/s. You can draw out a numberline to

Mild

These are the temperatures in York and Rome on a day in winter.

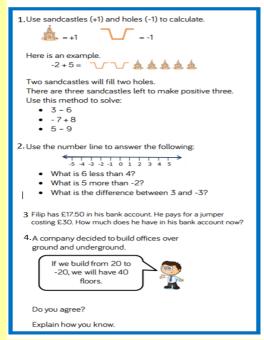
Note

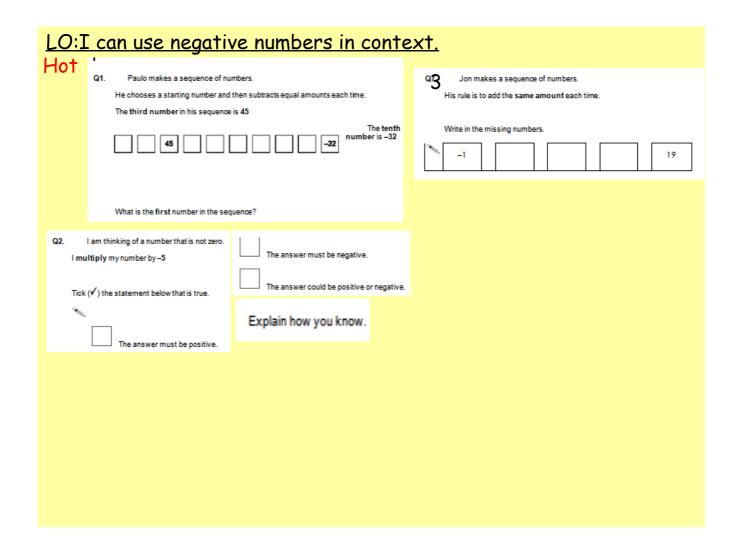
N

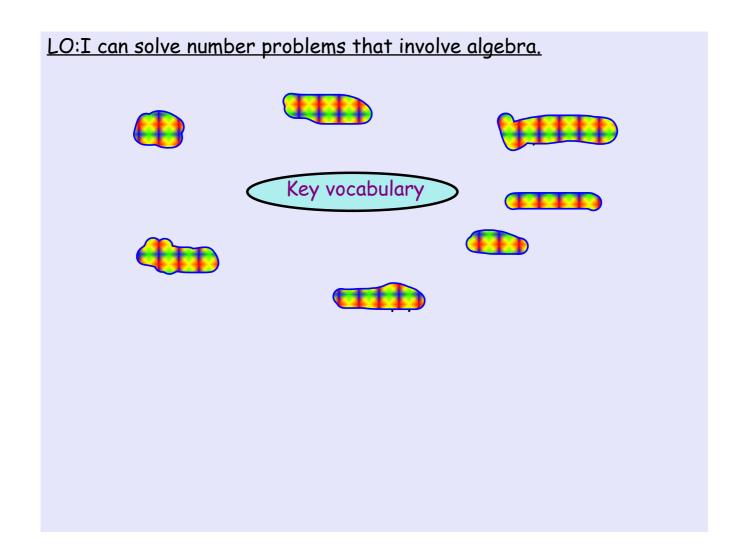


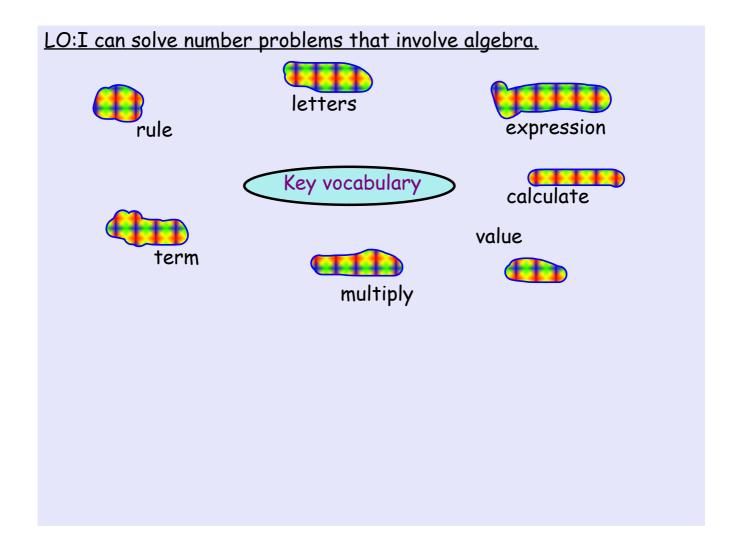
#### LO: I can use negative numbers in context.

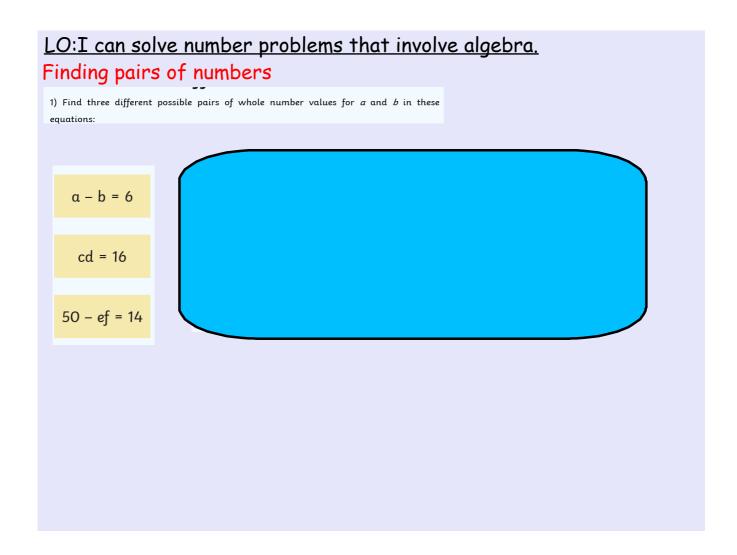
#### Spicy











#### Finding pairs of numbers

1) Find three different possible pairs of whole number values for a and b in these equations:

$$a - b = 6$$

3 
$$\alpha = 8, b = 2$$

e = 4, f = 9

$$c = 2, d = 8$$
  $c = 4$ 



$$i = j + 16$$
,  $i + j = 24$   
 $k \div l = 3$ ,  $kl = 48$ 

$$k \div l = 3$$
,  $kl = 48$ 

$$i = j + 16$$
,  $i + j = 24$   $i = 20$ ,  $j = 4$ 

$$i = 20, j = 4$$

$$k \div l = 3, kl = 48$$

#### Mild

For each question, write 3 possible combinations of variables: 1.  $\alpha + b = 14$ 7. a - b = 1213. ab = 1219.  $a \div b = 3$ 20.  $b \div a = 9$ 2.  $\alpha + b = 21$ 8. b - a = 514. ab = 203. a + b = 269. a - b = 2315. ab = 3021.  $a \div b = 14$ 10.  $\alpha - 13 = b$ 16.  $\alpha = 2b$ 22.  $\alpha \div 2 = b$ 4.  $\alpha = b + 7$ 11. a = b - 617. b = 3a23.  $b \div 3 = \alpha$ 5.  $\alpha = b + 12$ 6. b = 15 + a12. b = 27 - a18. 2a = 3b24.  $4 \div b = \alpha$ 

Complete at least 1-12, you can do more if you like.

#### **Spicy**

For each question, write 3 possible combinations of variables: 1. 3a - b = 127.  $2\alpha - b = 10$ 13. 2ab = 24 19.  $2a \div b = 4$ 2. 6a + b = 258. 3a - b = 1714. 5ab = 100  $20.4a \div 3b = 10$ 3.  $12\alpha + 2b = 48$ 9. 7a - 2b = 1415. 7ab = 105 21.  $10b \div 5\alpha = 2$ 4. 8a = b + 1710. a = 3b - 716. a = 5b 22.  $2a \div 15 = b$ 5. 4a = 5b + 2311. 3a = 4b - 317.  $3\alpha = 8b$ 23.  $12a \div 4 = b$ 6. 6a + 16 = 4b12. 7a - 18 = 5b18. 10a = 7b24.  $8a \div 3 = 4b \div 11$ 

#### Hot

1-8 of spicy, then copy and explain below. prove your answer with a calculation.

Which of the following statements do you agree with? Explain your decisions.

There is a whole number that satisfies the symbol sentence  $5 \times \boxed{\phantom{0}} - 3 = 42$ There is a whole number that satisfies the symbol sentence  $5 + \boxed{\phantom{0}} \times 3 = 42$ There is a whole number that solves the equation 10 - x = 4xThere is a whole number that solves the equation  $20 \div x = x$ 

a + b = 17

a=

b=

2a -b= 25

a=

b=

10 more than a number is 35. What is the number.

Can you write an algebraic expression for this? 35-10=25

n + 10 = 35

22 less than a number is 15. What is the number?

10 more than a number is 35. What is the number.

Can you write an algebraic expression for this?

$$110 = 35$$

25

22 less than a number is 15. What si the number?

37

ı	$\Omega$ :T	can	solve	number	problems	that	involve	alaehra
L	$-\mathbf{C} \cdot \mathbf{L}$	Curi	30116	number	בווושוטט וע	IIIuI	IIIVOIVE	aigebi a,

١i	10	<u>d</u>
	1	4

1. Ten less than a number is 26. What is the number?

	n=

2. 16 is added to a number to make 35. What is the number?

n=

3. Fifteen is subtracted from a number to make 26. What is the number?

n=

4. Seventeen more than a number is 43. What is the number?

n=

5. A number has thirteen added to it to make 42. What is the number?

n=

- B) 1.) 3b + 10= 25 so b=
- 2.) 4s 2s= 12 so s=

Spicy

1. Ten less than two times a number is 24. What is the number?

2. 15 is added to three times a number. What is the number?

3. Fifteen is subtracted from four times a number to make 29. What is the number?

4. Nineteen more than two times a number is 43. What is the number?

5. Five times a number has thirteen added to it to make 58. What is the number?

B) 1.) 4d + 2c= 28 so d= c=

2.) 5s - 2s + h= 22 so s= h=

## Hot 1-3 of spicy, then questions below.

 A tile shop sells tiles online. Tiles that cover a square metre cost £m. Delivery is charged at £d.

The area to be covered is a.

Using the variables m, d and a, express the cost of tiles to cover area a.

8 square metres of wall needs to be covered. The cost of the tiles is £9 per square metre. Delivery is £5. Calculate the cost of the tiles.

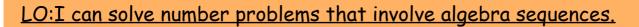
A tiler decides to compare the cost of tiles from different suppliers.

He uses the following table to calculate the different costs.

Supplier	m	α	d	cost
1	£6.00	12	£9.00	
2	£7.00	12	£5.00	
3	£8.00	12	£6.00	
4	£6.50	12	£2.00	
5	£7.50	12	£3.00	

Which supplier is the cheapest?

If the tiler wants tiles to cover  $\overline{15m2}$ , does the cheapest supplier remain the same?



The formula **2n + 1** can be used to calculate the value of these terms in this sequence:

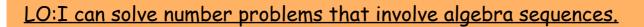
3 5 7 9 11 13

What is 2n + 1 when n = 13?



What is 2n + 1 when n = 50?





The formula **2n + 1** can be used to calculate the value of these terms in this sequence:

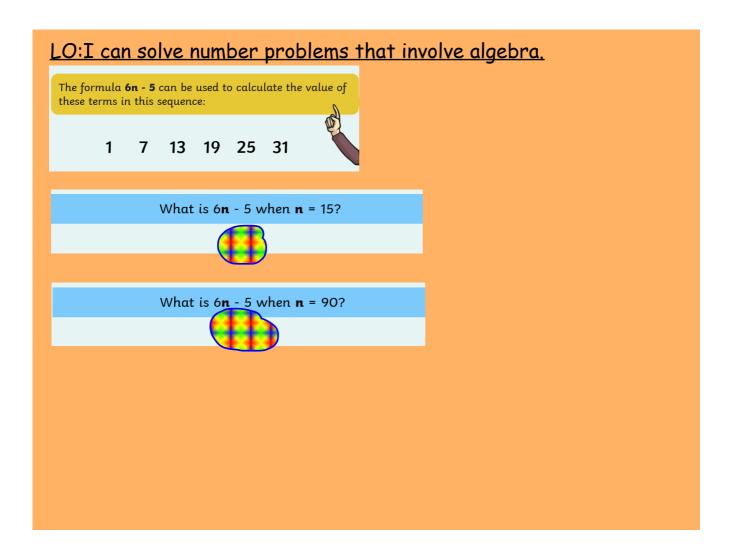
3 5 7 9 11 13

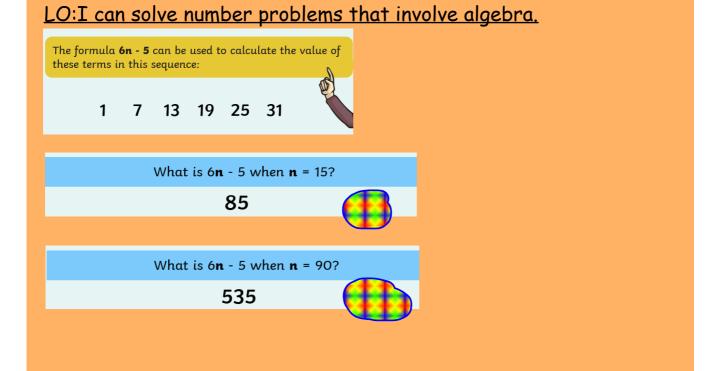
What is 2n + 1 when n = 13?

27

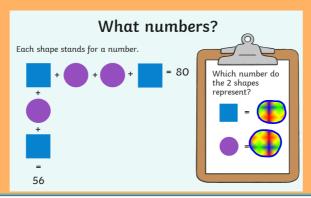
What is 2n + 1 when n = 50?

101





#### Mild/Spicy



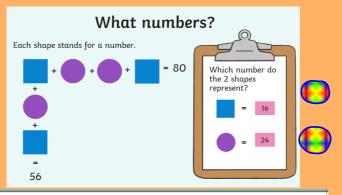
#### <u>Hot</u>

Ramesh is exploring two sequence-generating rules.

Rule A is: 'Start at 2, and then add on 5, and another 5, and another 5, and so on.' Rule B is: 'Write out the numbers that are in the five times table, and then subtract 2 from each number.'

What's the same and what's different about the sequences generated by these two rules?

#### Mild/Spicy



#### <u>Hot</u>

Ramesh is exploring two sequence-generating rules.

Rule A is: 'Start at 2, and then add on 5, and another 5, and another 5, and so on.' Rule B is: 'Write out the numbers that are in the five times table, and then subtract 2 from each number.'

What's the same and what's different about the sequences generated by these two rules?

.O:I can solve r						ve alg
	Here is a linear sequence:					
	2	7	12	17		
The 1st term is:						
The 4 <sup>th</sup> term is:						
The step is:						
The 5 <sup>th</sup> term will be:						
The 10 <sup>th</sup> term will be:						