



Year 4 Maths Home Learning | Summer Term



W.C. 20th April

<https://www.bbc.co.uk/bitesize/tags/zhgppg8/year-4-lessons/1>

Maths

After watching the videos and having a go at the practise activities, have a go at these activities.

Depending on your level of confidence choose Mild, Medium or Spicy (you may wish to try all three, but there is no expectation to do this)



Extensions – You may wish to deepen your learning by looking at the Collins Worksheets provided by the BBC too.

Monday

<https://www.bbc.co.uk/bitesize/articles/zhnrcqt>

Place Value for four digit numbers

Place value helps us work out the value of a digit depending on its place or position in a number.

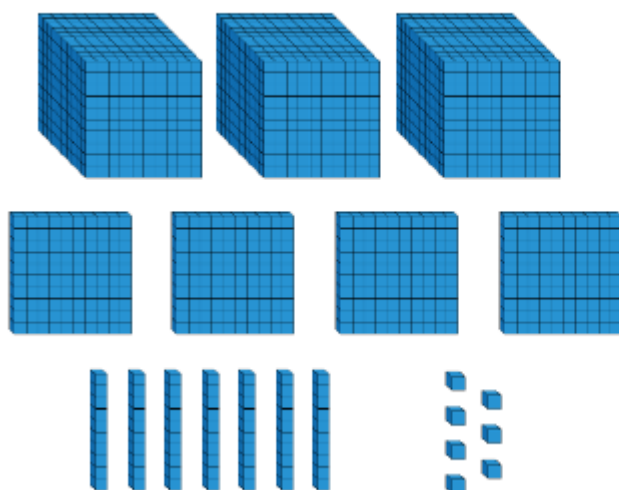
Place value can be expressed in terms of thousands, hundreds, tens and ones.

Place Value Chart for 4 Digit Numbers			
Thousands	Hundreds	Tens	Ones
1	4	8	9

The number presented is: 1489

Mild

Complete the sentences.

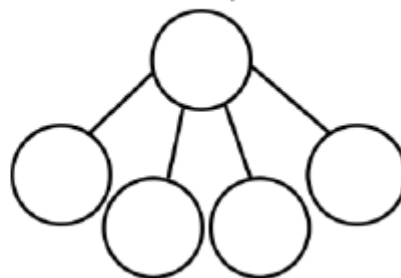
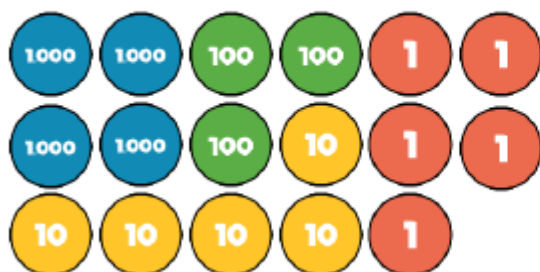


There are _____ thousands,
_____ hundreds, _____
tens and _____ ones.

The number is _____.

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

Complete the part-whole model for the number represented.



at _____

Medium

What is the value of the underlined digit in each number?

6,983

9,021

789

6,570

Represent each of the numbers on a place value grid.

Spicy

Create four 4-digit numbers to fit the following rules:

- The tens digit is 3
- The hundreds digit is two more than the ones digit
- The four digits have a total of 12

Use the clues to find the missing digits.



The thousands and tens digit multiply together to make 36

The hundreds and tens digit have a digit total of 9

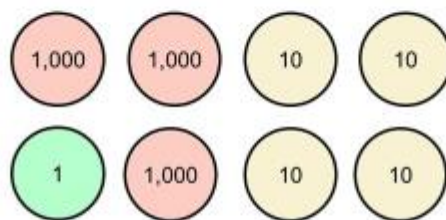
The ones digit is double the thousands digit.

The whole number has a digit total of 21

Plenary task

Sam is making the number 3,441 with place value counters.

What has Sam forgotten?



4



400



4 hundreds



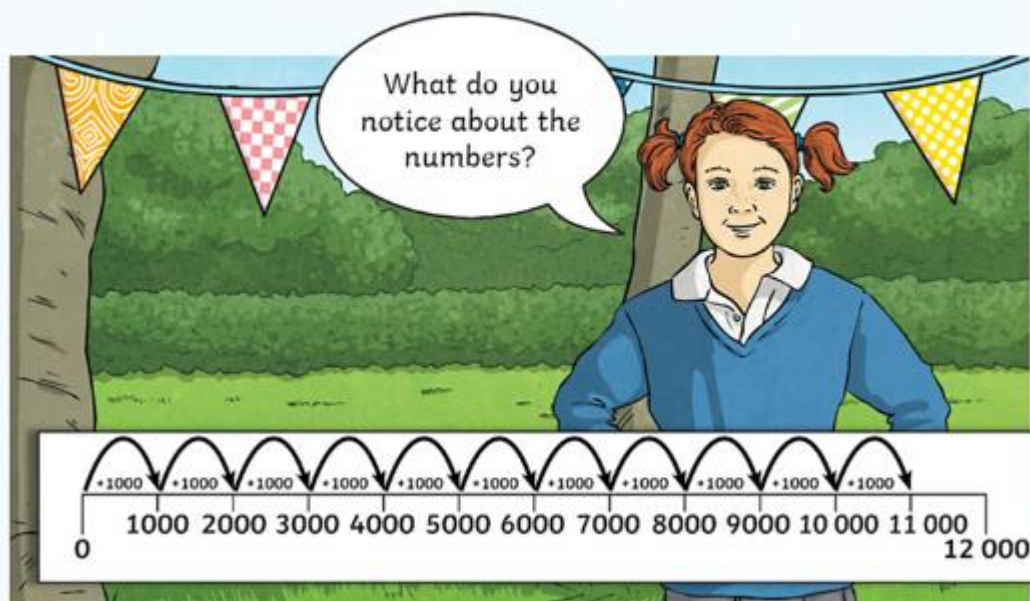
B and C

Tuesday

Counting in thousands

<https://www.bbc.co.uk/bitesize/articles/zd9hpg8>

Counting in Thousands



Some mathematical conversational points...

How many hundreds are there in one thousand?

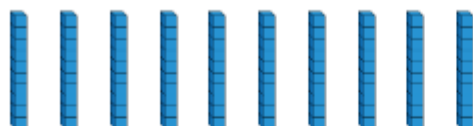
How many hundreds make ____ thousands?

How is counting in thousands similar to counting in 1s?

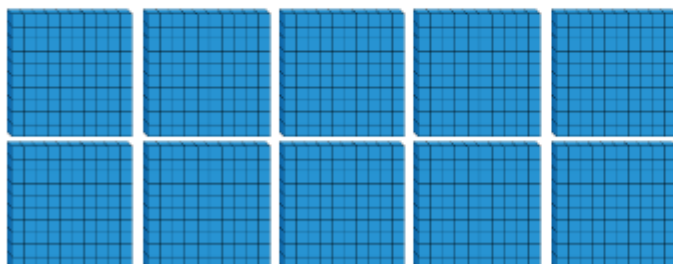
When counting in thousands, which is the only digit to change?

How many sweets would there be in ____ jars?

Mild:



____ tens make ____ hundred.



____ hundreds make ____ thousand.

Which representations show 1000?

	<table border="1"> <tr> <td colspan="2">?</td> </tr> <tr> <td>200</td> <td>700</td> </tr> </table>	?		200	700	
?						
200	700					

Medium

How many sweets are there altogether?



1,000



1,000

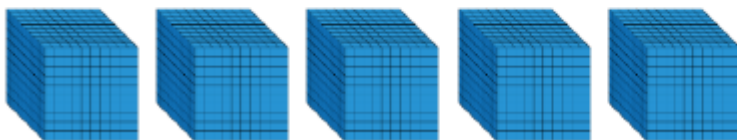


1,000

There are three jars of ____ sweets.

There are ____ sweets altogether.

What numbers are represented below?



Spicy

Always, Sometimes, Never

- When counting in hundreds, the ones digit changes.
- The thousands column changes every time you count in thousands.
- To count in thousands, we use 4-digit numbers.

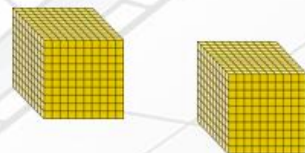
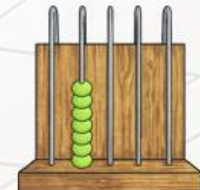
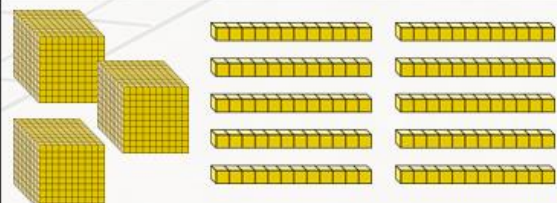
Rosie says,



If I count in thousands from zero, I will always have an even answer.

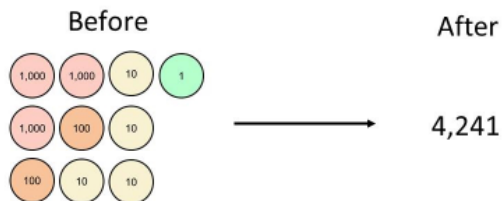
True or false?
Explain how you know.

Look at the statements below. Are they true or false? Correct any errors.

	=									
	=									
<table border="1" data-bbox="156 1245 715 1424"><thead><tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td></tr></tbody></table>	Th	H	T	O					=	
Th	H	T	O							
										

Plenary Task:

What's happened to the number represented with place value counters?



A

B

C

D

100 more

1,000 more

1,000 less

100 less

Wednesday

Round Numbers to 10, 100, 1000

<https://www.bbc.co.uk/bitesize/articles/zjf492p>

To round a number to the nearest **10**, look at the amount of ones. If this is 5 or more, round up. If it is 4 or less, round down.

To round a number to the nearest **100**, look at the tens digit. If the tens digit is 5 or more, round up. If the tens digit is 4 or less, round down.

To round a number to the nearest **1,000**, look at the hundreds digit. If the hundreds digit is 5 or more, round up. If the hundreds digit is 4 or less, round down.

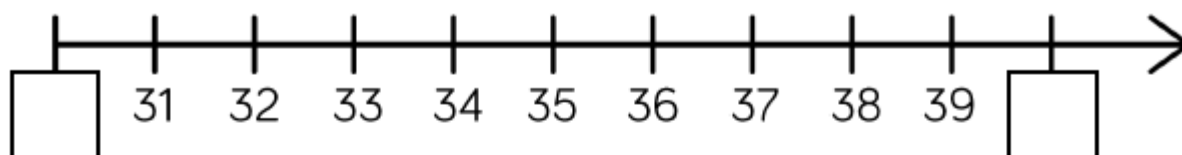
Mild, Medium and Spicy - Log on to Timetable Rock Stars and compete in the Battles we have set up!



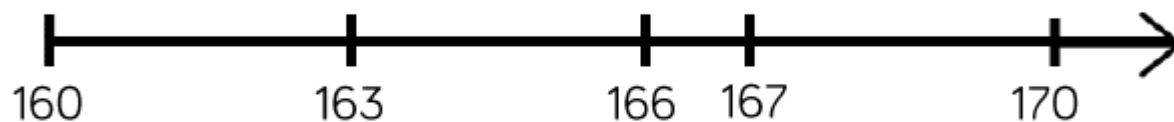
There is also a fabulous super movers link on the daily learning page - be sure to access this as part of your daily movements!

Mild

Which multiples of 10 do the numbers sit between?



Say whether each number on the number line is closer to 160 or 170?



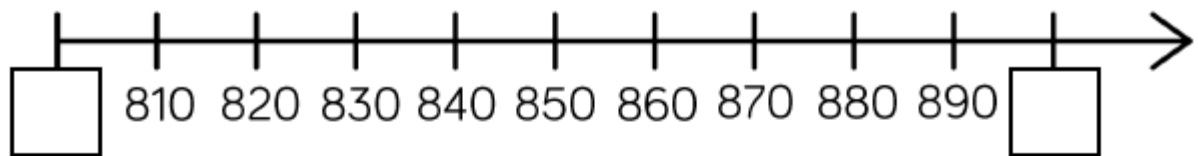
Round 163, 166 and 167 to the nearest 10

Complete the table:

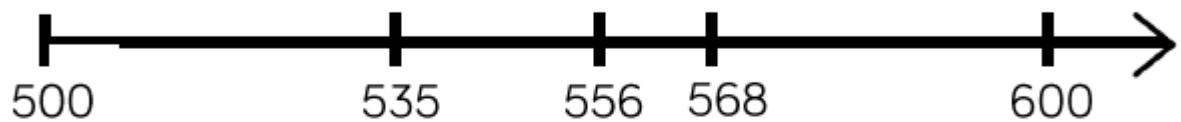
Start number	Rounded to the nearest 10
10010010010101	
10010010010111	
851	

Medium:

Which multiples of 100 do the numbers sit between?



Say whether each number on the number line is closer to 500 or 600.



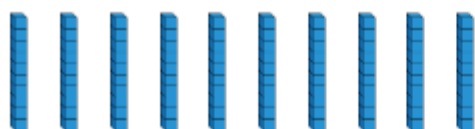
Round 535, 556 and 568 to the nearest 100

Use the stem sentence: ____ rounded to the nearest 100 is ____.

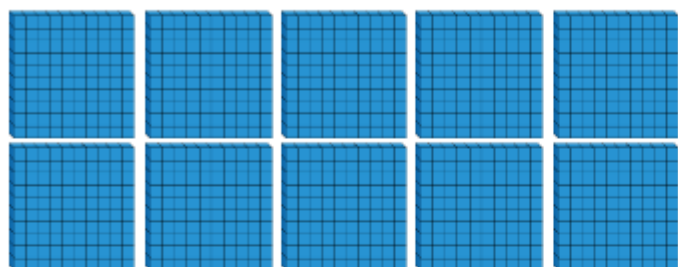
Complete the table:

Start number	Rounded to the nearest 100
400 50 7	
994	
XLV	

Spicy (both of the above as well as...)



____ tens make ____
hundred.



____ hundreds make ____
thousand.



How many sweets are there altogether?



1,000



1,000



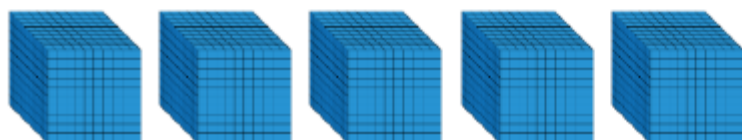
1,000

There are three jars of ____ sweets.

There are ____ sweets altogether.



What numbers are represented below?



1000

1000

1000

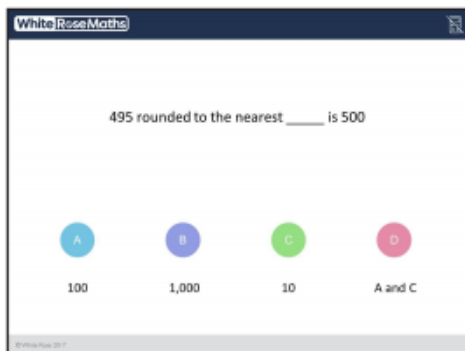
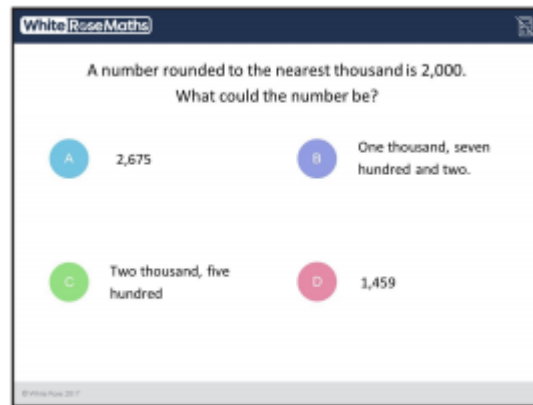
Always, Sometimes, Never

- When counting in hundreds, the ones digit changes.
- The thousands column changes every time you count in thousands.
- To count in thousands, we use 4-digit numbers.

Plenary Task:

5,675 rounded to the nearest 10 is...

- A 5,670 B 5,680
C 5,700 D 5,610



Thursday

Negative Numbers:

<https://www.bbc.co.uk/bitesize/articles/zkmv382>

What are positive and negative numbers?

Any number above zero is a **positive** number. Positive numbers are written with no sign or a + sign in front of them and they are counted up from zero to the right on a number line.

Any number below zero is a **negative** number. Negative numbers are always written with a - sign in front of them and they are counted down from zero to the left on a number line.

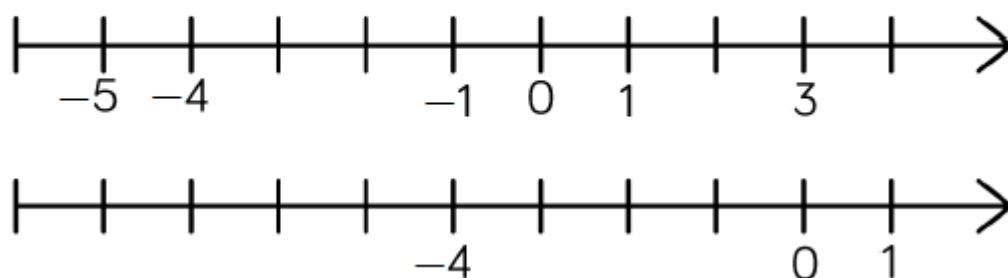
Always look at the sign in front of a number to see if it is positive or negative.

Zero, 0, is neither positive nor negative.



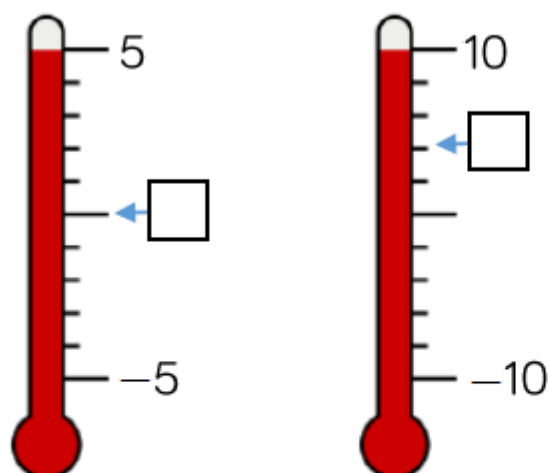
Mild

 Complete the number lines



Medium

 Fill in the missing temperatures on the thermometers.



 Dexter is counting backwards out loud.

He says,

“Two, one, negative one, negative two, negative three ...”

What mistake has Dexter made?

Spicy:

Can you spot the mistake in these number sequences?

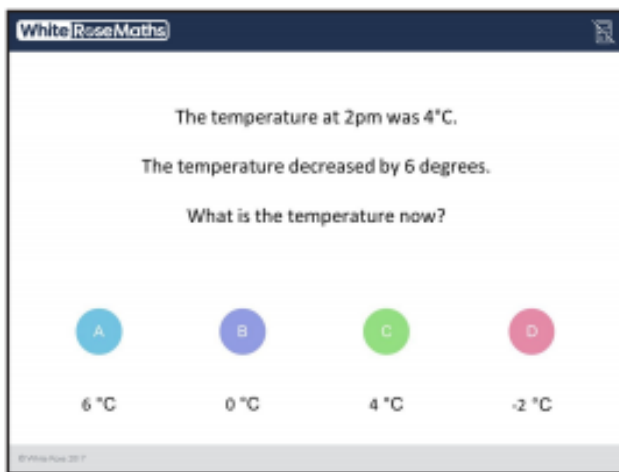
- a) 2, 0, 0, -2, -4
- b) 1, -2, -4, -6, -8
- c) 5, 0, -5, -10, -20

Explain how you found the mistake and convince me you are correct.

Teddy counted down in 3s until he reached -18

He started at 21, what was the tenth number he said?

Plenary Task:



Friday

Key Skills and challenge day!

Mild

Challenge 1

Can you work out the values of each shape?

$$\star + \star = 20$$

$$\heartsuit - \star = 7$$

$$\heartsuit - \heartsuit = \blacktriangle$$

Medium

Challenge 2

Tom has six 10p coins and three 5p coins. He buys an apple for 59p and two pencils.

He has no money left. How much does a pencil cost?



Spicy

Challenge 3

Here are some digit cards.



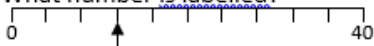
Amir and Donna each make a three-digit number using all the cards.

Amir notices that when he subtracts his number from Donna's number he gets an answer greater than 300 but less than 400.

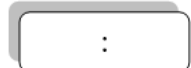
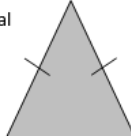
What numbers did they make?

KEY SKILLS

Mild

A: Place Value, Add and Subtract	
1. What is the missing number? 0 8 12 16	3:1
2. What is the 8 worth in this number? 183	3:2
3. Write this number in numerals. two hundred and fifty	3:3
4. What number is labelled? 	3:4
5. Make the largest number possible using the digits 2 7 5.	3:5
6. $890 + 10 =$	3:6
7. $436 - 123 =$	3:7
8. Circle the best estimate to $59 + 39$: 80 90 100 110	3:8
9. One orange costs nineteen pence. How much will three oranges cost?	3:9
10. What is the missing number? - 19 = 13	3:9

Medium and Spicy

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions		C: Measure and Geometry	
1. What is the missing number? 18 36 45 54	4:1	11. $42 \div 6 =$	4:9	21. How many metres (m) are in 3.5 kilometres (km)?	4:19
2. What is the missing number? 49 56 63 77	4:1	12. Two factors of 28 add up to 9. What are they?	4:10	22. The sides of a rectangle are 2m and 6m. 	4:20
3. What is 1,000 more than 150?	4:2	13. $234 \times 5 =$	4:11		What is the perimeter of the rectangle?
4. Round this number to the nearest 10: 1,543	4:2	14. In a class of 18 there are 2 girls for every 1 boy. How many girls are there?	4:12	23. About how much is in this 1 litre jug? Write a, b or c.  a. about 250ml b. about 550ml c. about 750ml	
5. What is $3 - 5$?	4:3	15. $\frac{1}{3} = \frac{?}{15}$ 	4:13		24. How would 2 pm be shown on a 24-hour digital clock? 
6. What is the value of the 2 in this number? 2,789	4:4	16. What is the missing number? 1.72 1.73 1.74 1.76	4:14	25. What is the special name for this type of triangle? 	
7. Write the number 22 in Roman numerals.	4:5	17. $\frac{3}{13} + \frac{6}{13}$	4:15		
8. $4,528 - 216 =$	4:6	18. Write $\frac{1}{4}$ as a decimal number.	4:16		
9. Write the sum to check $239 + 154 =$ 393: $393 - \square = \square$	4:7	19. $23 \div 100 =$	4:17		
10. I have £1. I spend 34p then 45p. How much do I have left?	4:8	20. Round 3.4 to the nearest whole number.	4:18		