

5.3.21 - Quick Maths

A ○ Multiply each of these by 10

30 16 15 2

- _____ divided by 7 = 5
- -3, ____, -1, ____, ____, 2
- Complete -

210		

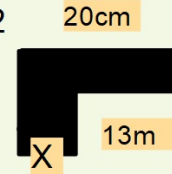
Are there lots of possibilities? Why?

B

- $2,356 - 1,265 =$
- $2,567 + \underline{\hspace{2cm}} = 600$
- $6,000 - \underline{\hspace{2cm}} = 4,590$
- $1/4 + 1/2 =$
- $3 \times 6 = \underline{\hspace{2cm}} \times 2$

Explain

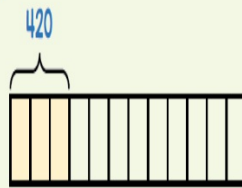
Is x 6cm? Why?



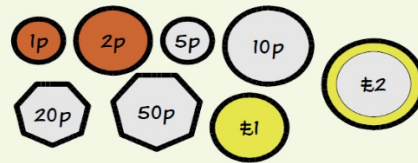
Challenge

Caroline saves the same amount of money each month. She saves £420 in 3 months.

How much does she save in a year?



Investigation



What is the **fewest** number of coins you need to make
(a) 83p (b) £1.34 (c) £5.27?

5.3.21

Learning Objective:

Today I am learning to count and calculate negative numbers



Key Vocabulary

- negative - zero
- more than/less than/equal
- number line
- positive
- temperature

Success Criteria

- I will be successful if I can -
- Identify a negative number.
 - Count in negative numbers.
 - Calculate the difference of negative numbers.
 - Show and represent negative numbers.

Use the White Rose slides/video to support these teaching slides before you complete the main task.

Flashback 4!

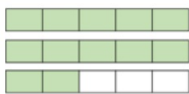
Flashback 4

1) Complete

$$\frac{1}{5} \text{ of } \square = 5$$

2) Calculate $5 - \frac{5}{8}$

3) Complete the sentence.



There are ___ fifths altogether.

4) Find the product of 139 and 5



Complete this as quickly as you can (verbally or through writing it down).

Quick Review! - Roman Numerals

Write your answer as a number or Roman Numeral

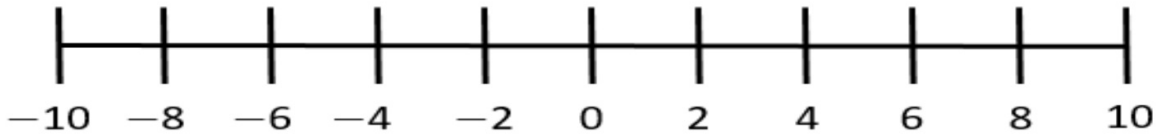
XIII rounded to the nearest 10 is

XXVI rounded to the nearest 10 is

XLIX rounded to the nearest 10 is

Challenge - Can you write three questions where the answer would be 50?

Negative Numbers



Negative numbers are numbers **below zero (o)**

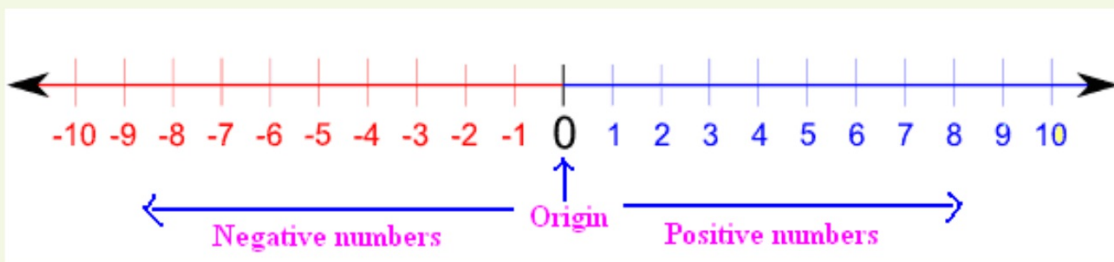
Complete this as quickly as you can (verbally or through writing it down).

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LEFT

RIGHT



The numbers less than **zero** are negative **numbers**.

Which do you think is larger? -7 or -2? -8 or 0?

For negative numbers what might seem to be a *larger* number is in fact *smaller*. On the number line the negative numbers are to the LEFT of zero. -5 is less than 4 because -5 lies to the left of 4 on the number line. -1 is greater than -3 because it lies to the RIGHT of -3 on the number line.

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Negative Numbers

< = or >

Try these -

$20 \text{ ____ } - 20 \quad -10 + 5 \text{ ____ } - 5$

$-4 \text{ ______ } -8 \quad -4 + 6 \text{ ____ } 5$

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Negative Numbers



< = or >

Ted thinks that if counts **forwards** 10 from -10, the answer would be -20.

Ted is _____ because

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Negative Numbers



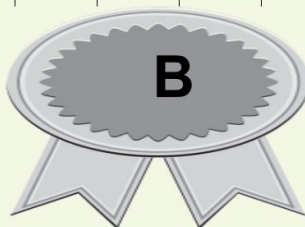
Ted thinks the halfway point between -15 and 11 is 8 . Is he right?

Prove it using a numberline

Main Task

5.3.21

Negative Numbers



Now complete '5.3.21

Challenges

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.

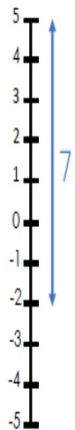
I know... so...

The difference between **-2** and **5** is **7**

The difference between **-2** and **4** is ____

The difference between **-3** and **4** is ____

The difference between **-3** and ____ is **9**



True or False?

True or False? Negative numbers

-25 degrees is warmer than -5 degrees.