

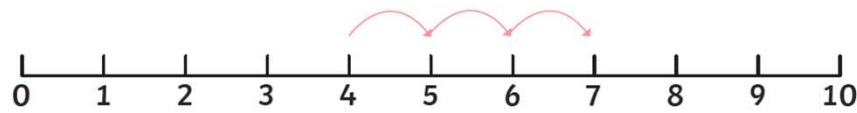
Green Class

Addition and Subtraction: Stage 1

Addition and Subtraction

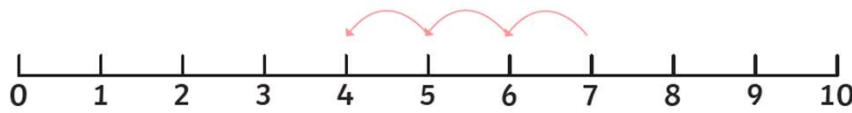
Knowledge Organiser

Counting On and Counting Back



Counting on

$$4 + 3 = 7$$



$$7 - 3 = 4$$

Counting back

Addition and Subtraction

Knowledge Organiser

Number Bonds

$$5 - 0 = 5$$


$$5 + 0 = 5$$

$$5 - 1 = 4$$


$$4 + 1 = 5$$

$$5 - 2 = 3$$


$$3 + 2 = 5$$

$$5 - 3 = 2$$

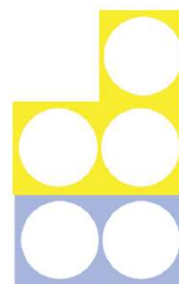

$$2 + 3 = 5$$

$$5 - 4 = 1$$

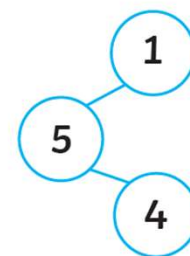

$$1 + 4 = 5$$

$$5 - 5 = 0$$


$$0 + 5 = 5$$



$$3 + 2 = 5$$



$$5 = 1 + 4$$

5



Addition and Subtraction: Stage 2

Addition and Subtraction		Knowledge Organiser	
Key Vocabulary	Addition and Subtraction Bonds to 20		
Add		$15 + 5 = 20$ $20 - 5 = 15$ $20 - 15 = 5$	 $7 + 5 = 12$ $12 - 5 = 7$ $12 - 7 = 5$
Total		$4 + 3 = 7$	
Make	Methods		
Plus	Add 2-digit and 1-digit		
Sum		$27 + 6 = 33$	
More		$33 - 6 = 27$	
Altogether	Add 2-digit numbers		
Difference	$34 + 28 = 62$		
Leave	3 tens and 4 ones		
Subtract	add		
Difference between	2 tens and 8 ones		
Less	equals		
Minus	6 tens and 2 ones becomes		
Take away	5 tens and 12 ones		
Mentally, Orally	5 tens and 12 ones subtract		
Column Addition	2 tens and 8 ones equals		
Column Subtraction	3 tens and 4 ones		
Estimate	Addition and Subtraction Bonds to 100		
Inverse operation	$2 + 8 = 10$		
Solve problems	so $20 + 80 = 100$		
Number facts	$32 + 68 = 100$		
Place Value	3 tens and 2 ones + 6 tens and 8 ones = 9 tens and 10 ones = 10 tens = one hundred		

Addition and Subtraction		Knowledge Organiser																							
Mental Methods	More or Less/ Add and Subtract 1s and 10s																								
Compare Number Sentences	Add and subtract 1s	10 More or Less	Add and Subtract 10s																						
	$24 + 1 = 25$ $24 + 2 = 26$ $24 + 3 = 27$	<table border="1"> <tr><td>30</td><td>40</td><td>50</td><td>60</td><td>70</td><td>80</td></tr> <tr><td>47</td><td>57</td><td>67</td><td>77</td><td>87</td><td>97</td></tr> </table>	30	40	50	60	70	80	47	57	67	77	87	97	<table border="1"> <tr><td>10</td><td>30</td><td>50</td><td>70</td><td>90</td></tr> <tr><td>3</td><td>33</td><td>63</td><td>93</td><td></td></tr> </table>	10	30	50	70	90	3	33	63	93	
30	40	50	60	70	80																				
47	57	67	77	87	97																				
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3	33	63	93																						
$6 + 4 < 6 + 5$		The ones digit stays the same.																							
$5 + 3 = 6 + 2$	$37 - 1 = 36$	<table border="1"> <tr><th>10 less</th><th>Number</th><th>10 more</th></tr> <tr><td>1</td><td>11</td><td>21</td></tr> <tr><td>34</td><td>44</td><td>54</td></tr> </table>	10 less	Number	10 more	1	11	21	34	44	54	$27 + 40 = 67$													
10 less	Number	10 more																							
1	11	21																							
34	44	54																							
Related facts	$37 - 2 = 35$	Take care when crossing hundreds:																							
$5 + 4 = 9$ so $50 + 40 = 90$	$37 - 3 = 34$	<table border="1"> <tr><td>86</td><td>96</td><td>106</td><td>116</td></tr> </table>	86	96	106	116	$72 - 30 = 42$																		
86	96	106	116																						
	There are 7 flowers in a vase. One more is added. Now there are 8 flowers.	Crossing hundreds:	<table border="1"> <tr><td>74</td><td>94</td><td>114</td><td>134</td></tr> </table>	74	94	114	134																		
74	94	114	134																						

Check Calculations		
	$32 + 5 = 82$ x Spot that 5 tens have been added not 5 ones	$37 - 4 = 41$ x Spot that if subtracting 4 the answer will be smaller.
$19 - 8 = 11$ can be checked using $8 + 11 = 19$	$28 - 26 = 12$ x Spot that 28 and 26 are very close together, so difference won't be 12.	$68 - 40 = 64$ x Spot that 4 ones have been subtracted and not 4 tens.

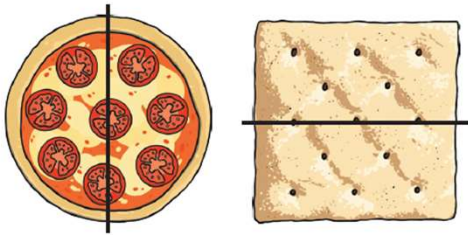
Fractions: Stage 1

Fractions

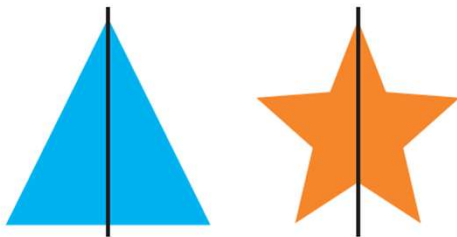
Knowledge Organiser

Half of a Shape

These objects and shapes are split in **half**.

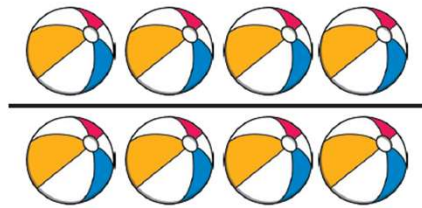


Each whole has **2 equal parts**.

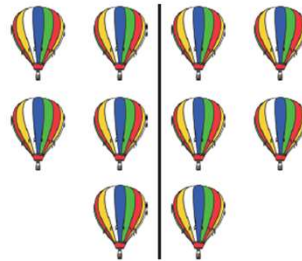


Half of a Group

There are 8 balls. Half of 8 is 4.



There are 10 balloons. Half of 10 is 5.

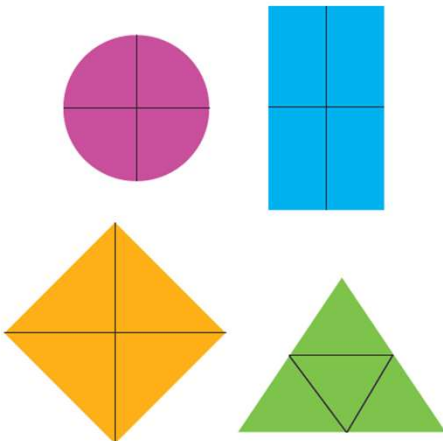


Fractions

Knowledge Organiser

Quarter of a Shape

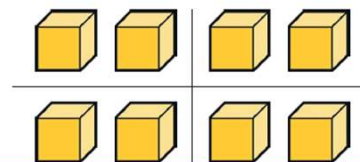
These shapes are split into **quarters**.



Each whole has **4 equal parts**.

Quarter of a Group

There are 8 blocks.
There are 2 in each quarter.
A quarter of 8 is 2.



Capacity and Fractions

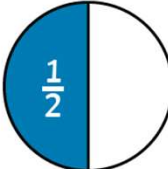
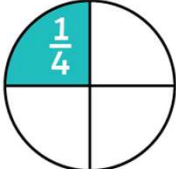

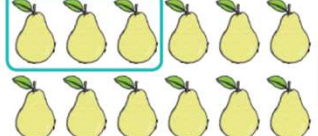
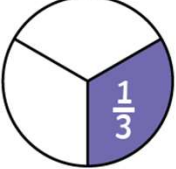
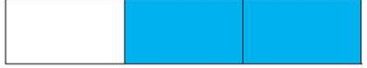
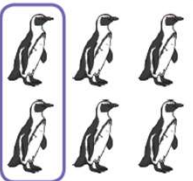
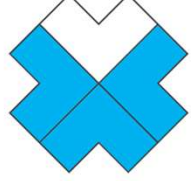


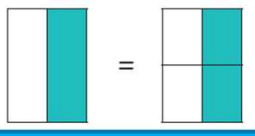
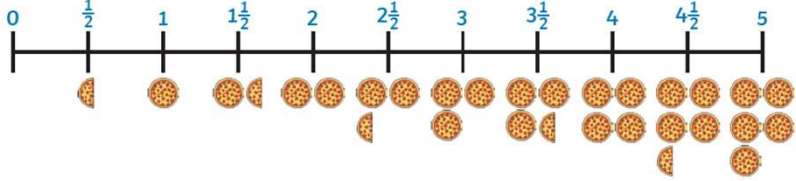
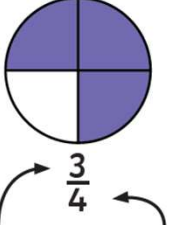
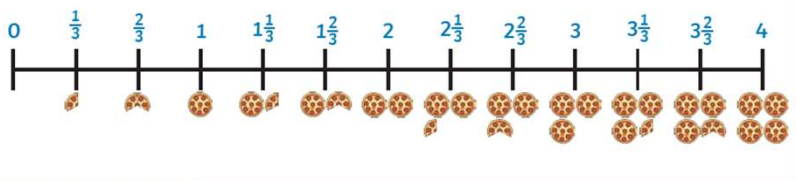
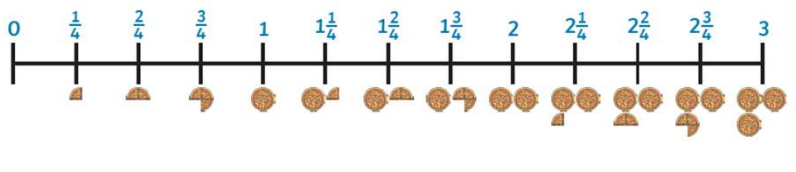
The bottle is a quarter full.

The jar is half full.



Fractions: Stage 2

Fractions		Knowledge Organiser	
Key Vocabulary	Recognising Unit Fractions		
fraction	Half	<p>A whole split into two equal parts.</p> 	<p>Quarter</p> <p>A whole split into four equal parts.</p> 
part	 <p>$\frac{1}{2}$ of $8 = 4$</p>	 <p>$\frac{1}{4}$ of $12 = 3$</p>	
whole	Third	<p>A whole split into three equal parts.</p> 	<p>Non-unit Fractions</p> <p>$\frac{2}{3}$</p> 
equal	 <p>$\frac{1}{3}$ of $6 = 2$</p>	<p>$\frac{3}{4}$</p> 	
share			
half			
quarter			
third			
equivalent			
numerator			
denominator			

Fractions		Knowledge Organiser	
Equivalent Fractions	Counting in Fractions		
<p>$\frac{1}{2} = \frac{2}{4}$</p> 	<p>Halves</p> 		
<p>Numerator and Denominator</p>  <p>Numerator How many equal parts of the whole are needed?</p> <p>Denominator How many equal parts are in the whole?</p>	<p>Thirds</p> 		
	<p>Quarters</p> 		

Length and Height: Stage 1

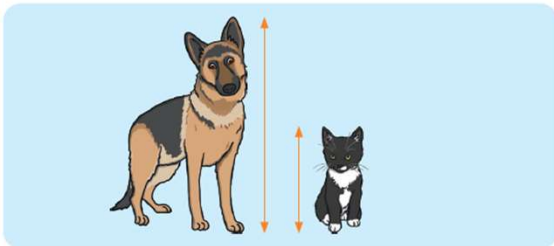
Length and Height

Knowledge Organiser

Height

The dog is **taller** than the cat.

The cat is **shorter** than the dog.



tallest

shortest

Length

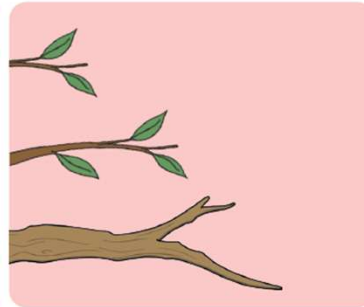


The car is **shorter** than the train.

The train is **longer** than the car.

shortest

longest



Length and Height

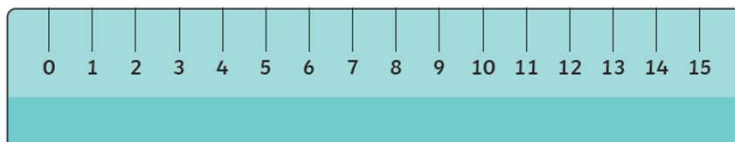
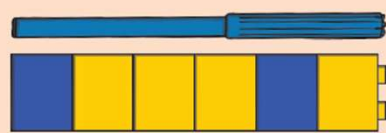
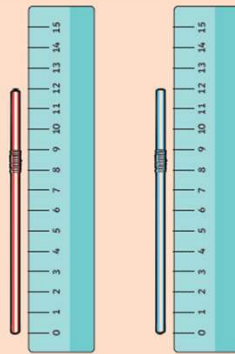
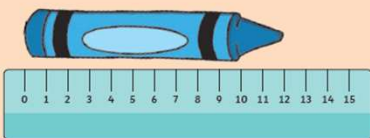
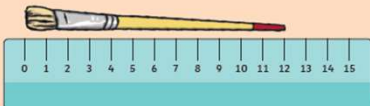
Knowledge Organiser

Length and Height

The same length.

The same height.

This pen is 6 cubes long.



This ruler is to scale.

Length and Height: Stage 2

Length and Height

Knowledge Organiser

Key Vocabulary

length

long

short

height

tall

measure

ruler

tape measure

metre stick

centimetre (cm)

metre (m)

compare

order

Measuring in Centimetres

Measure from zero.



This ruler measures in **centimetres (cm)**. The paintbrush is 8cm long.

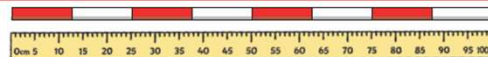
This ruler is to scale.

Measuring in Metres



We can measure the length or height of larger objects in **metres (m)**.

The girl is 1m and 20cm tall.



We can use metre sticks, trundle wheels or tape measures.

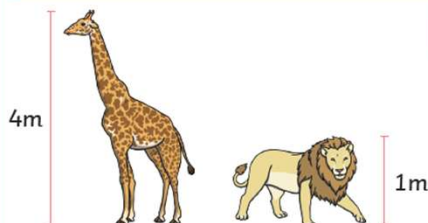
1 metre = 100 centimetres

Length and Height

Knowledge Organiser

Comparing Height

The giraffe is **taller** than the lion.
The lion is **shorter** than the giraffe.

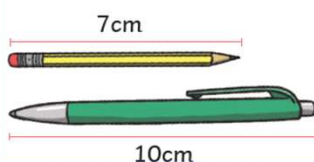


$$4\text{m} > 1\text{m}$$

Comparing Length

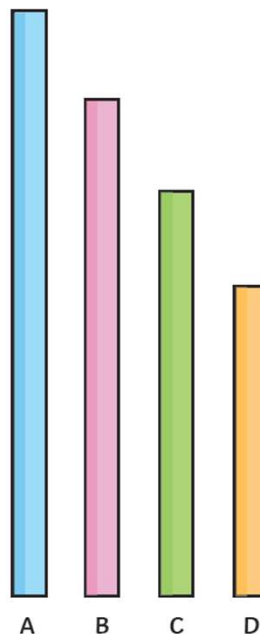
The pencil is **shorter** than the pen.
The pen is **longer** than the pencil.

$$7\text{cm} < 10\text{cm}$$



Ordering Length

The straws are in order from **longest** to **shortest**.



A is the **longest**.
D is the **shortest**.
B is **longer** than C.
C is **shorter** than A.

Time: Stage 1

Time	Knowledge Organiser	
<p>Before and After</p> <p>before after</p> <p>first next finally</p> <p>First, I brush my teeth. Next, I look at a book. Finally, I go to sleep.</p> <p>I brush my teeth before I look at a book. I go to sleep after I look at a book.</p>	<p>Days of the Week</p> <p>Monday Tuesday Wednesday Thursday Friday Saturday Sunday</p>	<p>Months of the Year</p> <p>January February March April May June July August September October November December</p>

Time	Knowledge Organiser	
<p>Telling the Time</p> <p>The long hand is the minute hand.</p> <p>The short hand is the hour hand.</p> <p>The time is 8 o'clock.</p>	<p>Telling the Time to the Hour</p> <p>At the hour, the minute hand points to 12.</p> <p>3 o'clock 6 o'clock 9 o'clock</p> <p>The hour hand points to the hour.</p>	
<p>Telling the Time to the Half Hour</p> <p>At half past, the minute hand is half way round the clock pointing to the 6.</p> <p>half past 1 half past 11 half past 7</p> <p>The hour hand will be halfway between one hour and the next.</p>	<p>Comparing Time</p> <p>A is faster than a .</p> <p>A is slower than a .</p> <p> 4 o'clock is earlier than half past 4.</p> <p> Half past 4 is later than 4 o'clock.</p>	

Time: Stage 2

Time		Knowledge Organiser							
Key Vocabulary	O'Clock and Half Past								
time	half past twelve	one o'clock	half past one	two o'clock	half past two	three o'clock	half past three	four o'clock	
clock									
hours									
minutes	half past four	five o'clock	half past five	six o'clock	half past six	seven o'clock	half past seven	eight o'clock	
hand									
o'clock									
half past									
quarter past	half past eight	nine o'clock	half past nine	ten o'clock	half past ten	eleven o'clock	half past eleven	twelve o'clock	
quarter to									
five minutes									
duration	Past and To								
shorter									
longer	o'clock	quarter past	half past	quarter to					

Time		Knowledge Organiser																								
Telling Time to 5 Minutes	O'Clock and Half Past	Find Durations of Time																								
<p>Hour Hand The short hand points to the hour. If this hand is pointing between hours, it is either past the earlier hour or to the later hour.</p> <p>Minute Hand The long hand points to the minutes past or to the hour.</p>	<p>There are 60 minutes in an hour.</p> <p>There are 24 hours in a day.</p>	<table border="1"> <thead> <tr> <th>Start</th> <th>Duration</th> <th>End</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="3">20 minutes has passed.</td> </tr> <tr> <th colspan="3">Compare Durations of Time</th> </tr> <tr> <td> A swimming lesson</td> <td>30 minutes</td> <td> A visit to the cinema</td> </tr> <tr> <td> The time it takes to do 1 star jump</td> <td>1 second</td> <td> A favourite TV programme</td> </tr> <tr> <td> A nice long walk</td> <td>3 hours</td> <td> A week at school</td> </tr> <tr> <td colspan="3">Compare the time using the vocabulary 'longer' and 'shorter'.</td> </tr> </tbody> </table>	Start	Duration	End				20 minutes has passed.			Compare Durations of Time			A swimming lesson	30 minutes	A visit to the cinema	The time it takes to do 1 star jump	1 second	A favourite TV programme	A nice long walk	3 hours	A week at school	Compare the time using the vocabulary 'longer' and 'shorter'.		
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