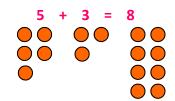


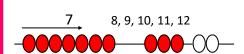
## Addition - EYFS and Key Stage 1



#### **Concrete**



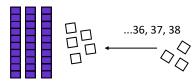
**Counting on: 7 + 5 = 12** 



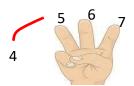




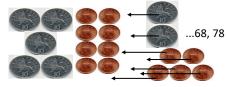
<u>Counting on: 35 + 3 = 38</u>



<u>Counting on: 4 + 3 = 7</u>



<u>Counting on: 58 + 25 = 83</u>



79, 80, 81, 82, 83

#### Pictorial (children to draw pictures)

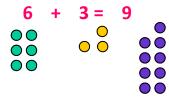
How many buttons? 7 + 5 = 12



12 | 6 - 49

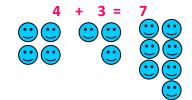


000

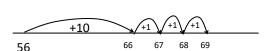


27 + 14 = 41





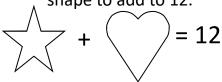
56 + 13 = 69





## **Abstract**

Write the numbers in the shape to add to 12.



What is 3 more than 35?

Paul thought of a number. He added six. His answer was 41. What was his original number?

Write the missing digits to make this correct.

5 + 0 = 76

Tick the two numbers that total 79.

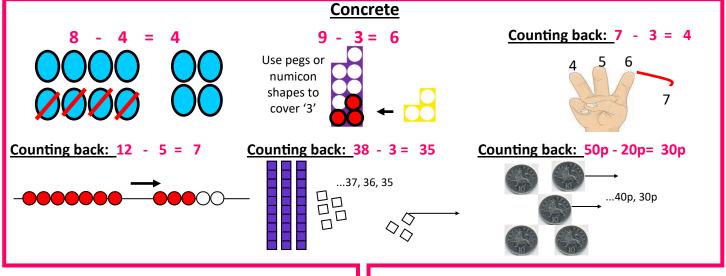
56 78 23 99

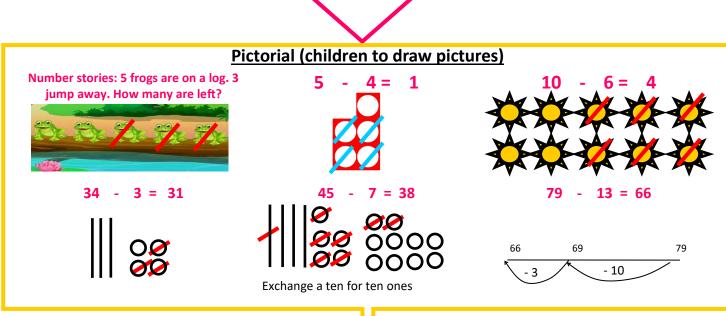
James bought a rubber for 34p. He also bought a pen for 58p. How much did he spend altogether?



## Subtraction - EYFS and Key Stage 1

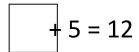




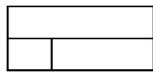




## **Abstract**



Paul thought of a number. He subtracted six. His answer was 35. What was his original number? Add numbers to make the bar model complete. How many different numbers can you use?



What is 3 fewer than thirty eight?

Tick the correct number. 79 - ? = 56

23 32 135

Henry's shoe measured 27cm.
His dad's shoe measured
42cm. How much longer was
Harry's dad's shoe compared
to Harry's shoe?

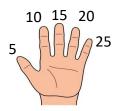


## Multiplication - EYFS and Key Stage 1

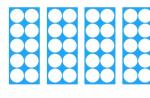




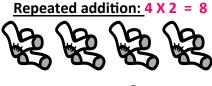
4 X 10 = 40



Repeated addition:  $5 \times 2 = 10$ 

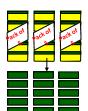


 $3 \times 3 = 9$ 



2

5 X 3 = 15





2 + 2 + 2



#### Pictorial (children to draw pictures





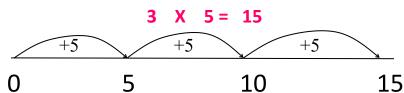














### **Abstract**

I will clap where there is one number missing.

2 4 6 (Clap) 10 12 14

What is the missing number?

Write the missing numbers in the sequence below.

0	2		6	8	
---	---	--	---	---	--

Will the number 11 be in the sequence? How do you know?

Sponges come in packs of 5. Mr Smith buys 3 packs of sponges. How many sponges did Mr Smith have altogether? Prove it!

Complete the below table

Comp	ete the ben	OW table
	1 × 5	5
	3 × 5	
		35

Write different digits in each box to make these correct

ີ x □ = 20

☐ x ☐ = 20

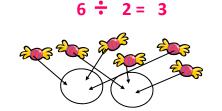
Can you think of any more multiplication calculations that make Will these two calculations give you the same answer? Prove it!

5 X 2 = 2 X 5



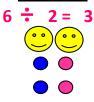
## **Division - EYFS and Key Stage 1**



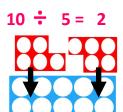


$$15 \div 5 = 3$$

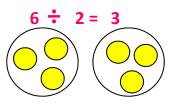




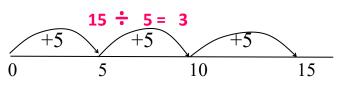




#### Pictorial (children to draw pictures)







## **Abstract**

How many different ways can we share 6 sweets equally? Prove it!

There are 25 children. groups of 5. How many groups will there be?

Paul had 20p in his piggy bank. Children need to be put into He only had 2p coins. How many 2p coins did he have?

Write a number in this box to make this correct.

Which is the odd one out? Why?

$$30 \div 5 = 6$$

$$5 \div 30 = 6$$

Which has the most biscuits: 4 packets of biscuits with 5 in each packet

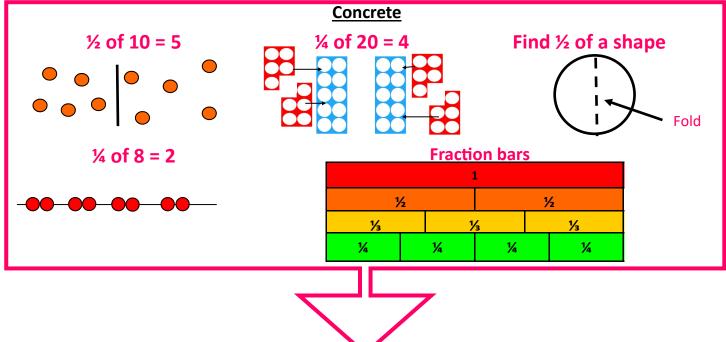
or

3 packets of biscuits with 10 in each packet. Prove it!



## Fractions - Key Stage 1



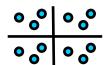


#### Pictorial (children to draw pictures)

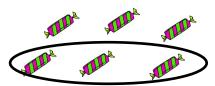
#### Colour ¼ of the shape



 $\frac{1}{4}$  of 12 = 3



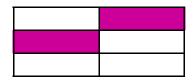
Circle ½ of the sweets



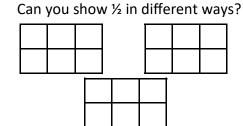
#### What fraction is circled?



## Shade 1/3 of the shape



## **Abstract**



boys. How many children could be at the party? How many different possibilities can you think of?

Half of the children at a party are James has a shape that is split into 4 equal parts. He shades in 2 parts and says 'I have shaded half of my shape'. Do you agree? Why?

Which is bigger? Prove it!

2/3 of 21 OR

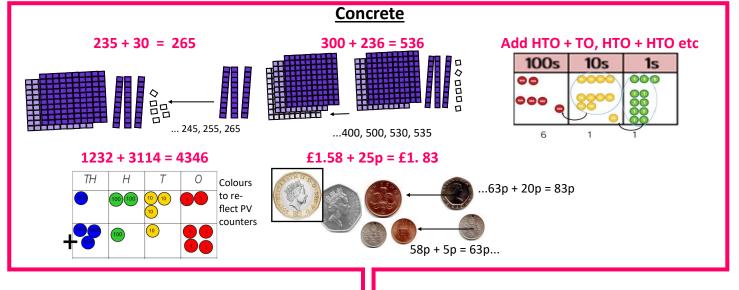
2/4 of 24

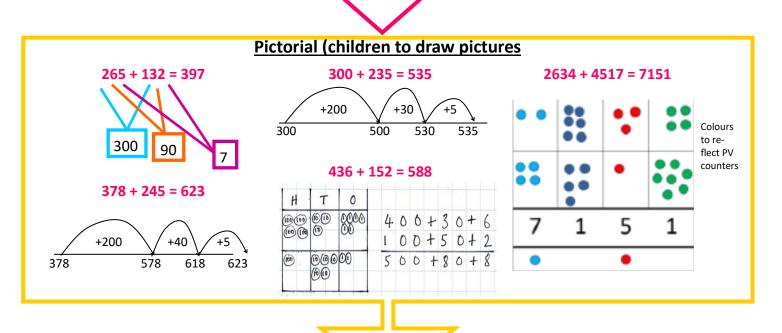
Can you mark ½, ¼ and ¾ on this number line?



## Addition - Key Stage 2







### <u>Abstract</u>

Column Addition using money

Column Addition

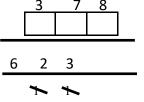
Sam bought a bag for £4.89, a hairbrush for £1.23 and a DVD for £6.54. How much change did he get from £15.00?

			•	
Th	Н	Т	U	
£	4	8	9	

	£	4 . 8	3 9
	£	1 . 2	2 3
+	£	6 • 5	5 4
£	1	2 . 6	6
		'\ '\	

	2	5	3	4
--	---	---	---	---

Use three of the numbers above to make this correct.



6 8 Is there more than one answer for the + 8 missing numbers in the hundred column?

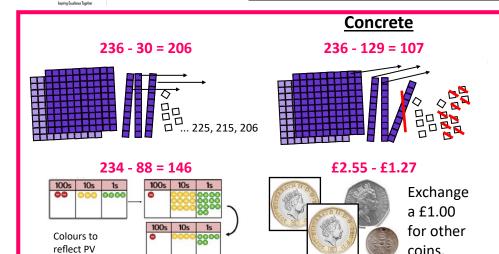
9,3 2 5 Prove it.

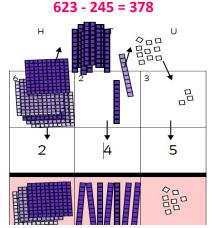


counters

## Subtraction - Key Stage 2





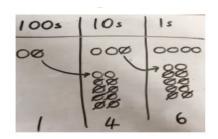


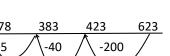
# Pictorial (children to draw pictures)

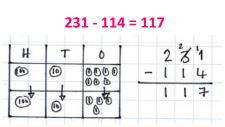
623 - 245 = 378

coins.

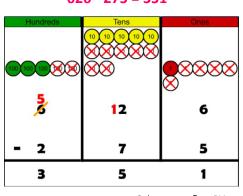
234 - 88 = 146









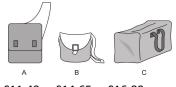


Colours to reflect PV counters



#### **Abstract**

Here are 3 bags in a shop.

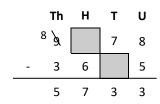


£11.49 £14.65 £16.89

Adam buys bag A and bag C. How much change will he get from £40?

Ben emptied his piggy bank and counted £9.97. He wanted to buy a Tshirt that cost £10.11. How much more money did he need to save?

Fill in the missing numbers to make Chloe is performing column this correct.



subtraction with two four digit numbers.



The larger number has a digit total of 35. The smaller number has a digit total of 2.

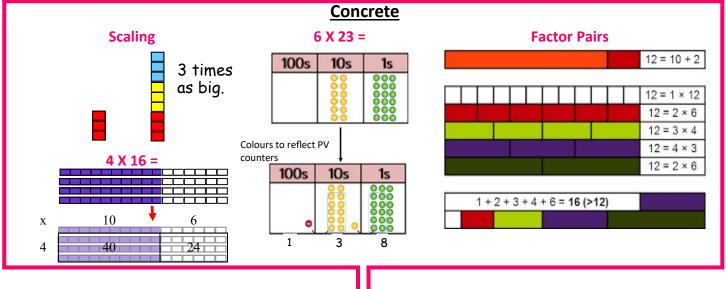
Use cards to help you to find the numbers.

What could Chloe's subtraction be? How many different options can you find?

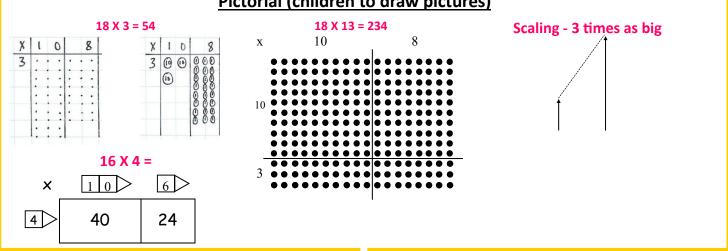


## Multiplication - Key Stage 2









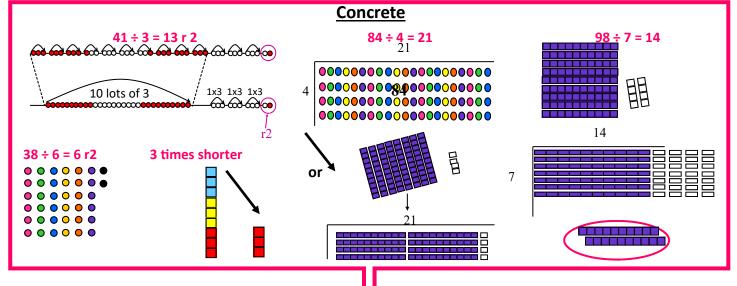


#### **Abstract** Fill in the missing numbers x 5 = 6752 6. 2 1 8 1 $(6 \times 4)$ X 1 2 0 0 (6 x 20) 5 2 4 Use all of the cards to make this correct: Two whole numbers are each 1 between 50 and 70.They multiply to make 4095. Write in the missing numbers. $\mathbf{L} \times 3 = 3 \ \mathbf{2}$ [] × [] = 4095

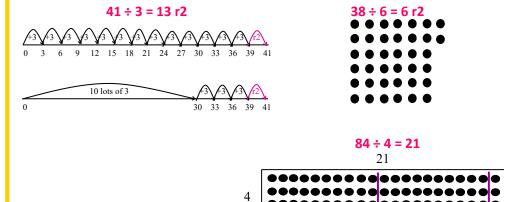


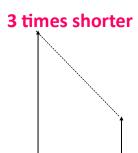
## **Division - Key Stage 2**













## **Abstract**

Short division

7 98

21 ?

Calculate the missing number

Formal long division

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

Investigate the possible values of the and

 $\square \div 6 = \bigcirc r 2$ 

A carton of orange juice fills 3 cups. Mrs. Green wants to fill 41 cups with orange juice. How many cartons does she need to buy?

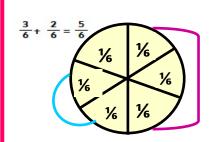
The length of Hannah's dress for her doll was 9cm. When it came out of the washing machine it was 3 times smaller. What was the length of the doll's dress now?

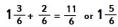


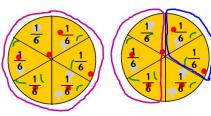
## Fractions - Key Stage 2



#### Concrete



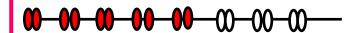




**Fraction Walls** 

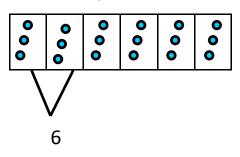


1/8 of 16 = 2

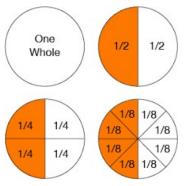


#### Pictorial (children to draw pictures

2/6 of 18



#### **Equivalent fractions**



$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$



$$1\frac{3}{6} + \frac{2}{6} = \frac{11}{6}$$
 or  $1\frac{5}{6}$ 



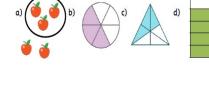


### **Abstract**

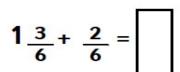
Which is the odd one out?

Explain how you know.

Sam ate a whole pizza. Jack ate only two sixths of his pizza and gave half of the pizza to Sam and he ate that too! What fraction of pizza did the boys eat?



Write down a fraction that could go in each section of the number line.



This is 2/5 of a set of marbles. How many would be in the whole set? Prove it!



