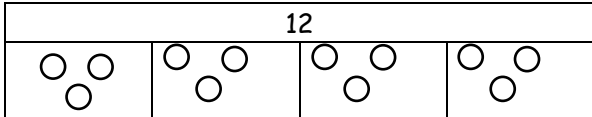
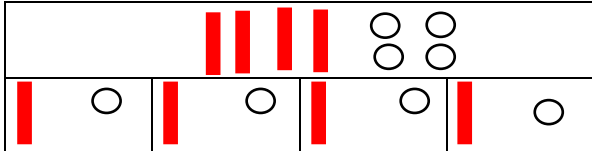
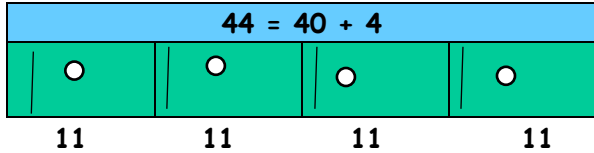
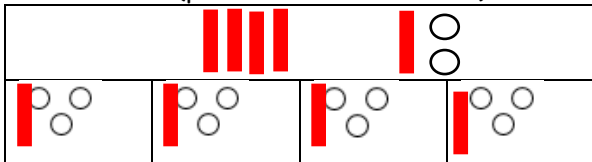
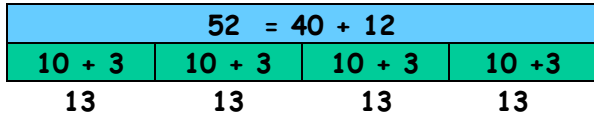
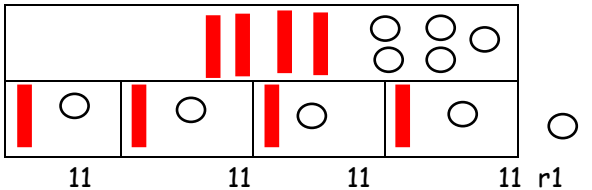
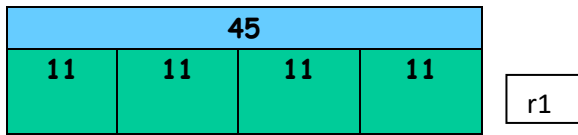


YEAR 3		Division (by 3, 4 and 8)	
Vocabulary: share, share equally, one each, two each..., group, groups of, lots of, array, row, column, equal groups of, group in pairs, 3s ... 10s, equal groups of, divide, ÷, divided by, divided into, remainder, left over, inverse, in every,			
Concrete		Pictorial	Abstract
Sharing (using dienes/place value counters/ numicon and bar model) $12 \div 4 = 3$ 		Sharing (using jottings moving onto numbers) $12 \div 4$ 	Written No written method. Sharing method eventually links with fractions.
$44 \div 4 = 11$ 		$44 \div 4$ 	
$52 \div 4 = 13$ (partition into 40 and 12) 		$52 \div 4$ 	
Remainders: <u>Sharing</u> $45 \div 4 = 11r1$ 		Remainders: <u>Sharing</u> $45 \div 4 = 11r1$ 	

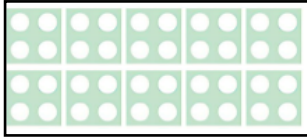
Grouping

$30 \div 6 = 5$

Link with $5 \times 6 = 30$

$48 \div 4 = 12$

10×4

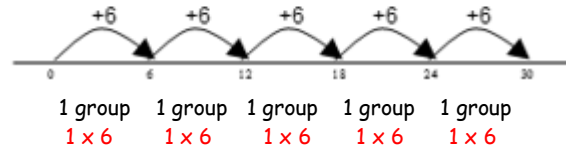


2×4

**Grouping**

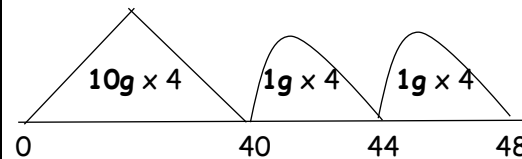
$30 \div 6 = 5$

How many 6's are in 30?

 $30 \div 6$ can be modelled as:

30				
6	6	6	6	6

$48 \div 4 = 12$



48		
40	4	4

Remainders:**Grouping**

$49 \div 4 = 12r1$

10×4



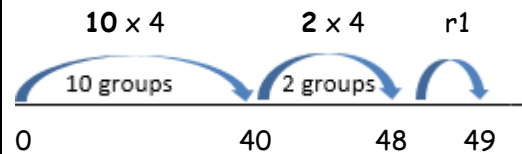
2×4



r 1

Remainders:**Grouping**

$49 \div 4 = 12r1$

**Written**

No written method.

÷10 and ÷100

$$30 \div 10 = 3$$

H	T	O
		
		

(also multiple of $100 \div 10$ and $\div 100$)

÷10 and ÷100

$$40 \div 10 = 4$$

H	T	O
	4	0
		4

(also multiple of $100 \div 10$ and $\div 100$)

÷10 and ÷100:

Mentally

$$50 \div 10 = 5$$

$$200 \div 10 = 20$$

$$200 \div 100 = 2$$

Mental

Using known facts and place value:

$$\text{If } 6 \div 2 = 3$$

$$\text{Then } 60 \div 2 = 30; 600 \div 2 = 300$$

Halving:

$$44 \div 2 = 22$$

Halve and halve again:

$$44 \div 4 =$$

$$44 \div 2 = 22$$

$$22 \div 2 = 11$$

Using the inverse:

$$\text{If } 4 \times 8 = 32$$

$$32 \div 4 = 8$$

$$32 \div 8 = 4$$

Partitioning:

No exchanging

$$69 \div 3 = 23$$

$$60 \div 3 = 20$$

$$9 \div 3 = 3$$

$$20 + 3 = 23$$

Partitioning in different ways:

$$42 \div 3$$

Partition into different tens and ones to support division.

$$30 + 12 \text{ (both divisible by 3)}$$