

Year 2 Written Calculations in Maths

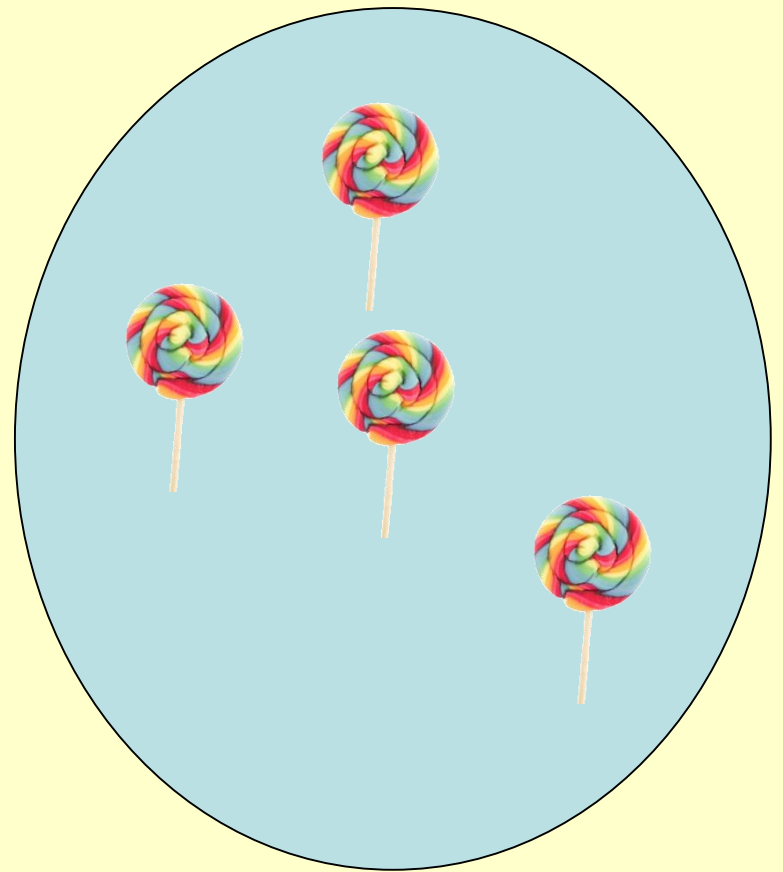
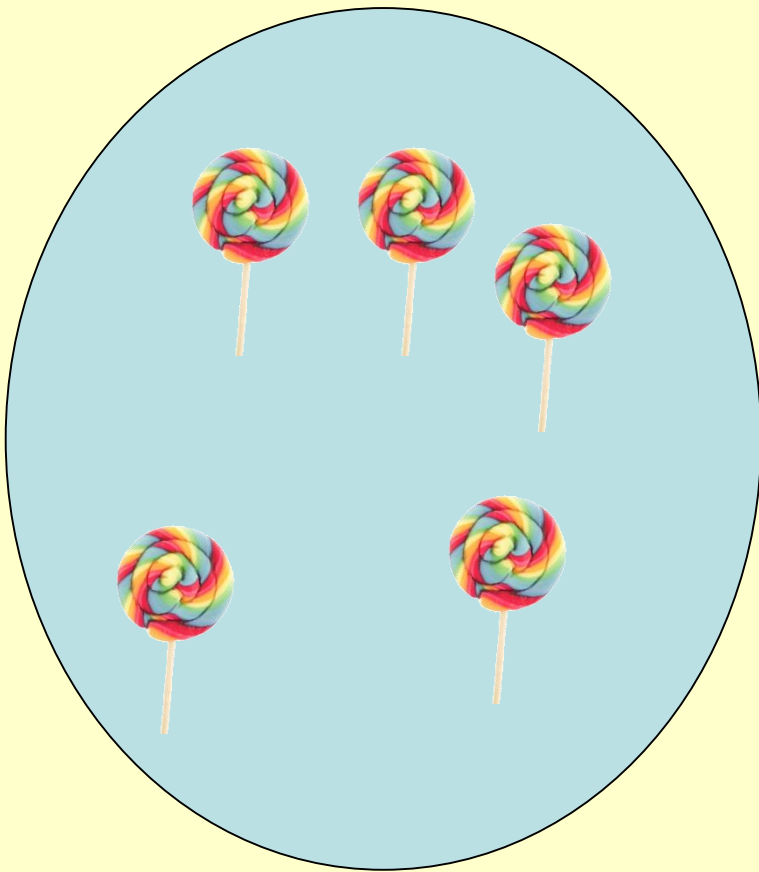
Autumn 1 – Mr Steadman

Addition

- +, add, more, *plus*
make, sum, total
altogether
score
double, *near double*
one more, two more... ten more
how many more to make...?
how many more is... than...?
how much more is...?

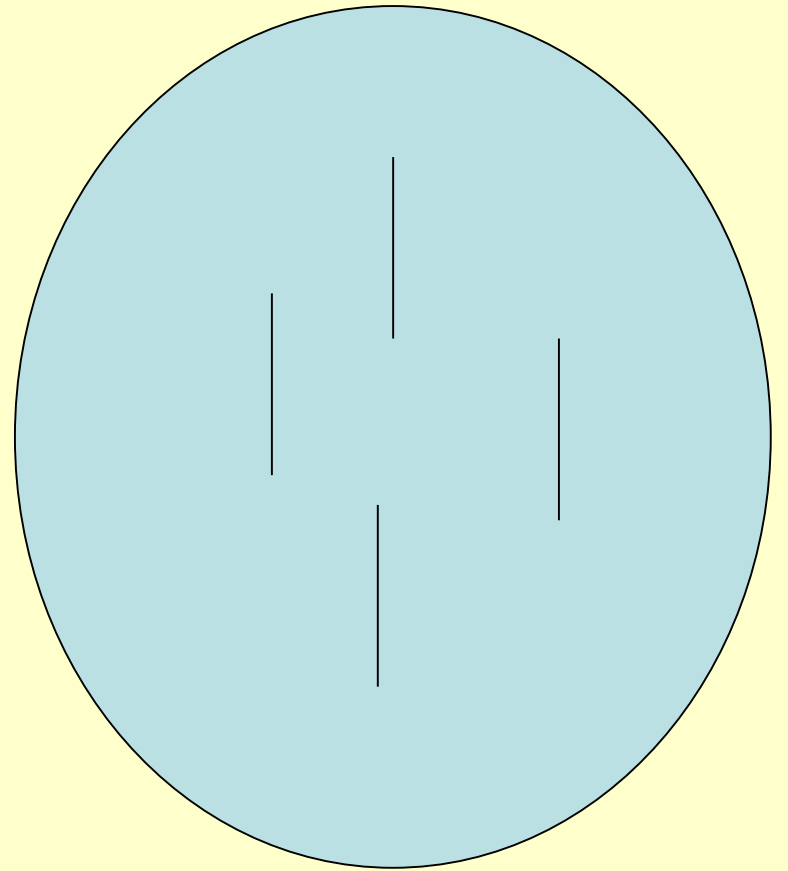
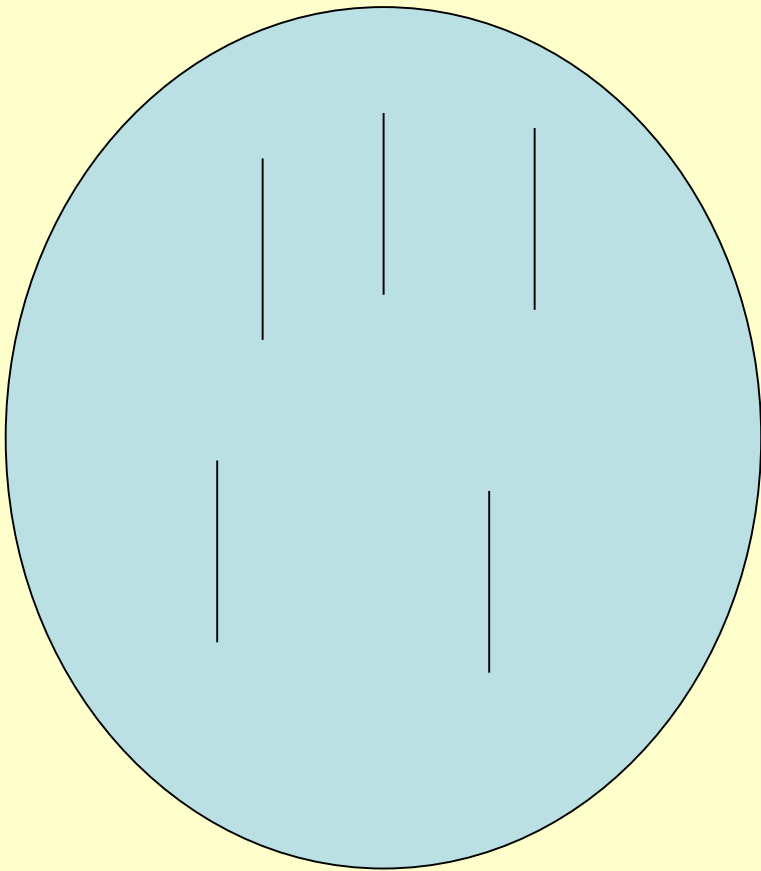
Pictures and Marks

Sarah has 5 lollies and Bethany has 4 lollies. How many lollies do they have altogether?



Pictures and Marks

Sarah has 5 lollies and Bethany has 4 lollies. How many lollies do they have altogether?



Signs and Symbols

- $3 + 2 = \square$

- $3 + \square = 5$

- $\square + 2 = 5$

- $\square + \square = 5$

- $\square = 3 + 2$

- $5 = \square + 2$

- $5 = 3 + \square$

- $5 = \square + \square$

Adding 3 or more numbers

$$14 + \square + 6 = 37$$

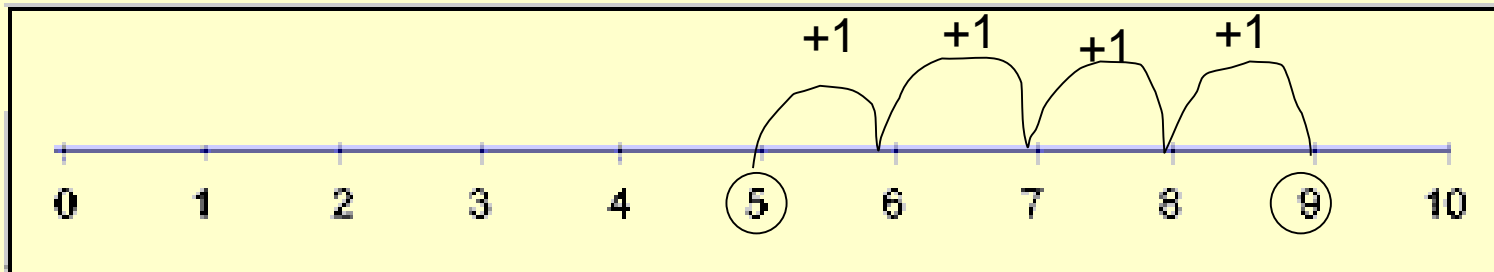
Extend to

$$21 + 6 = \square + 10$$

Numberlines (Numbered)

- Drawing jumps on prepared number lines

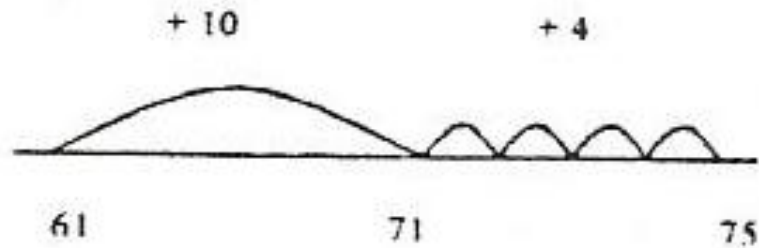
$5 + 4 = 9$Start at the biggest number and count up



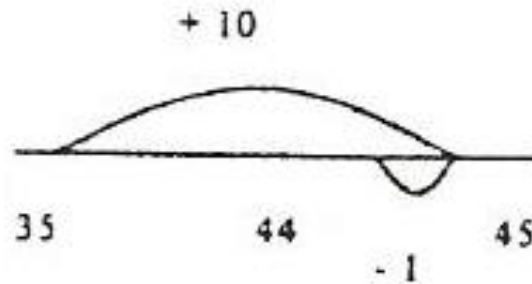
- Constructing own numberlines

Numberlines cont

$61 + 14$
(partition)



$35 + 9$
(compensate)



Extending to...

$$\begin{array}{r} 61 \\ 14 + \\ \hline 75 \\ \hline \end{array}$$

Other Jottings

$$\begin{aligned} 23 + 12 &= 23 + 10 + 2 \\ &= 33 + 2 \\ &= 35 \end{aligned}$$

Partition one
or both
numbers

$$\begin{aligned} \underbrace{3 + 8 + 7}_{10} &= 10 + 8 \\ &= 18 \end{aligned}$$

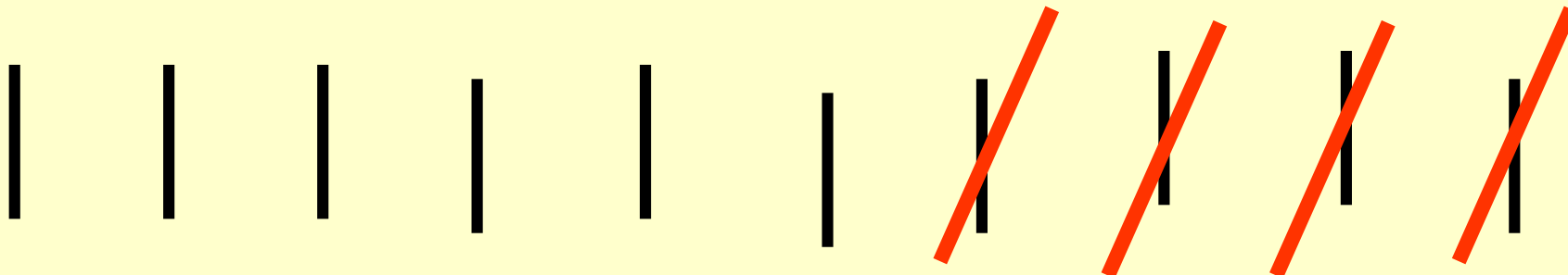
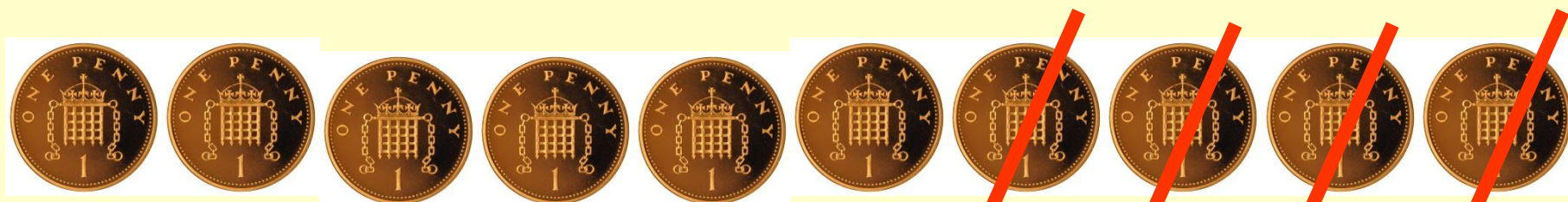
Pairs
totalling 10

Subtraction

- -, *subtract*, take (away), *minus*
leave
how many are left/left over?
how many are gone?
one less, two less, ten less...
how many fewer is... than...?
how much less is...?
difference between
half, halve
=, *equals, sign*, is the same as

Pictures and Marks

Sam had 10p. She spent 4p. How much change did she have left?



Signs and Symbols

- $5 - 2 = \square$

- $5 - \square = 3$

- $\square - 2 = 3$

- $\square - \square = 3$

- $\square = 5 - 2$

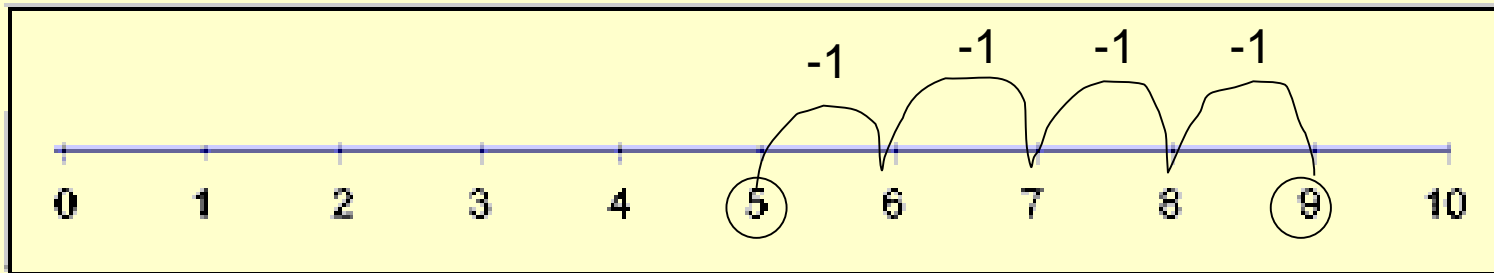
- $3 = \square - 2$

- $3 = 5 - \square$

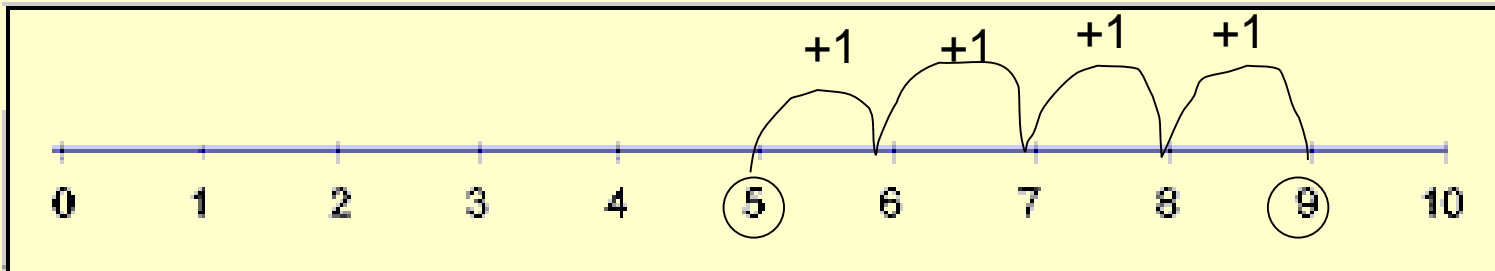
- $3 = \square - \square$

Numberlines (Numbered)

- Drawing jumps on prepared number lines
- $9 - 4 = 5$

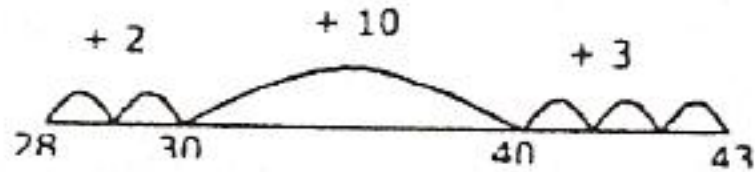


- Difference between 5 and 9

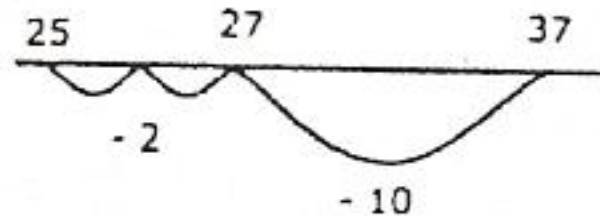


Numberlines cont...

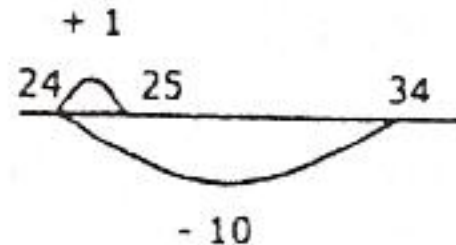
43-28
(count up)



37 - 12
(partition)



34 - 9
(compensate)



Other Jottings

$$\begin{aligned} 37 - 12 &= 37 - 10 - 2 \\ &= 27 - 2 \\ &= 25 \end{aligned}$$

Extending to...

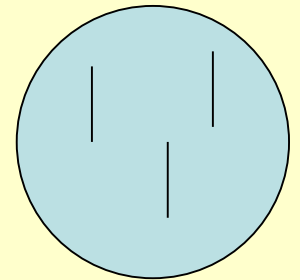
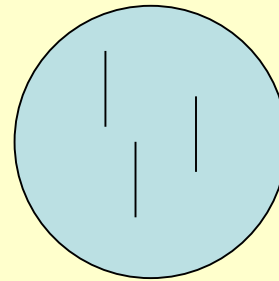
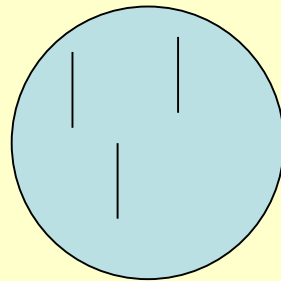
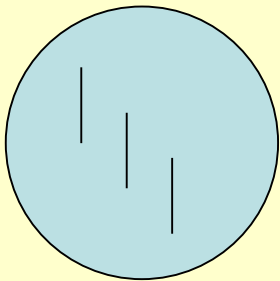
$$\begin{array}{r} 37 \\ 12 - \\ \hline 25 \\ \hline \end{array}$$

Multiplication

- *lots of, groups of
x, times, multiply, multiplied by
multiple of
once, twice, three times,
four times, five times... ten times...
times as (big, long, wide and so on)
repeated addition
array
row, column
double,*

Pictures and Marks

- There are 3 sweets in 1 bag. How many are there in 4 bags?



SIGNS AND SYMBOLS

$$\square \times 2 = \square$$

$$6 \times \square = 12$$

$$\square \times 2 = 12$$

$$\square \times \square = 12$$

$$\square = 2 \times 6$$

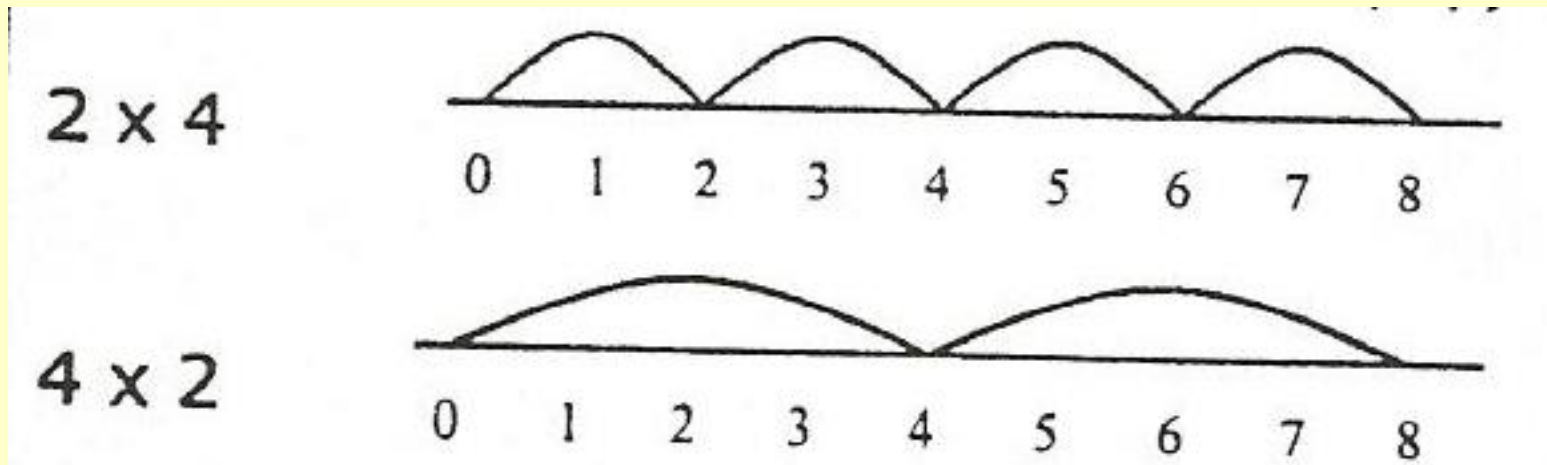
$$12 = \square \times 6$$

$$12 = 2 \times \square$$

$$12 = \square \times \square$$

Extend to $4 \times 5 = 10 \times \square$

NUMBER LINES (Numbered then empty)

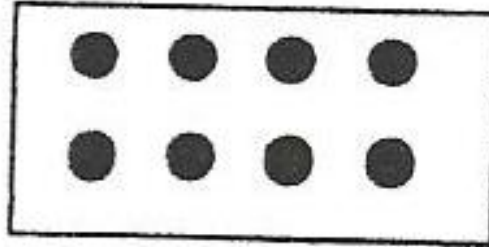


Recording by drawing jumps on a prepared line constructing own lines

Extending to...

Arrays

2 x 4 or 4 x 2



Repeated
addition

$$2 \times 4 = 2 + 2 + 2 + 2$$

Doubling by
partitioning

16 x 2

	10	6	
2	20	12	=32

Division

- halve
share, *share equally*
one each, two each, three each...
group in pairs, threes... tens
equal groups of
 \div , *divide, divided by, divided into*, left, left
over

Pictures and Marks

- 12 children get into teams of 4 to play a game. How many teams are there?



Signs and Symbols

$$12 \div 2 = \square$$

$$12 \div \square = 6$$

$$\square \div 2 = 6$$

$$\square \div \square = 6$$

Extend to $15 - 10 = 10 \div \square$

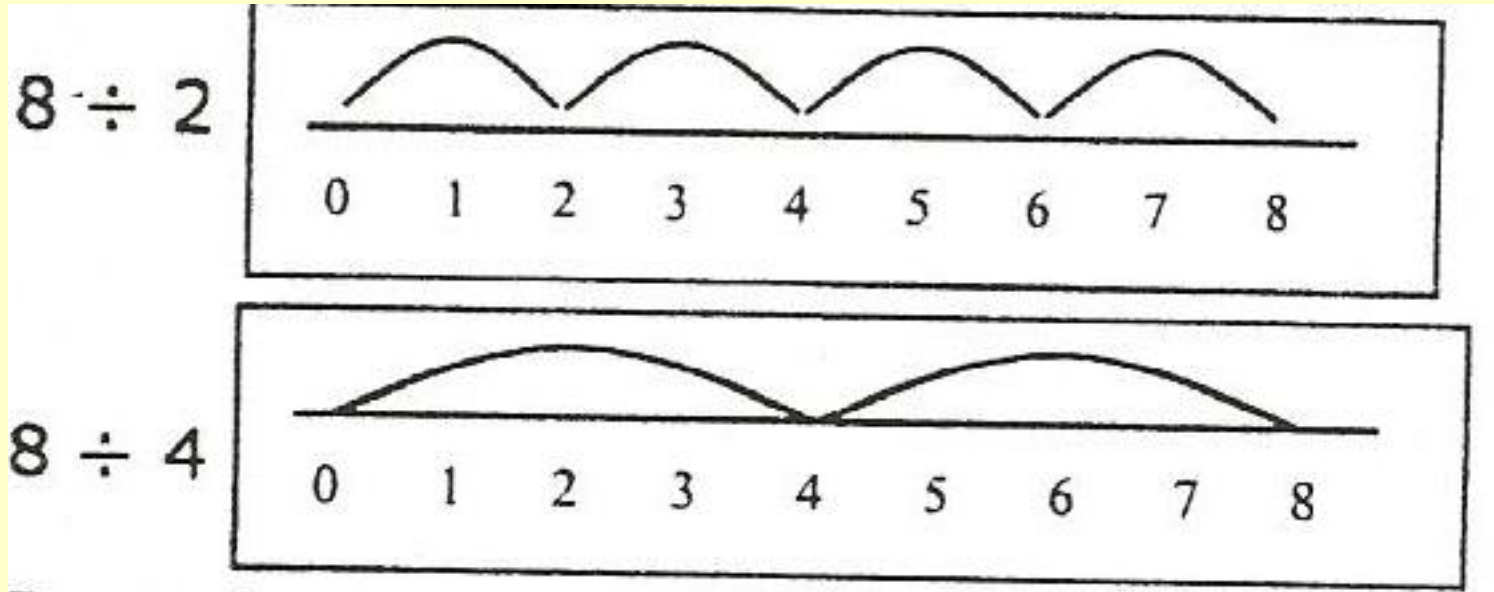
$$\square = 12 \div 2$$

$$6 = \square \div 2$$

$$6 = 12 \div \square$$

$$6 = \square \div \square$$

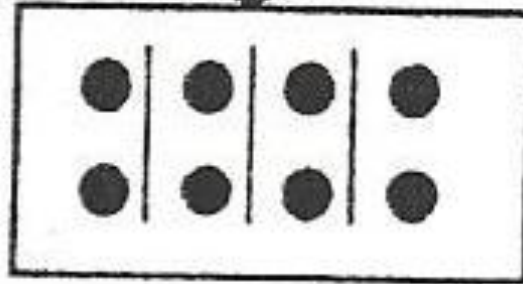
NUMBER LINES (Numbered/empty)



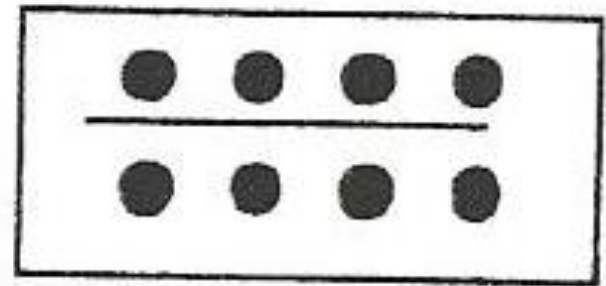
Recording by:
drawing jumps on prepared lines
constructing own lines

Other Jottings

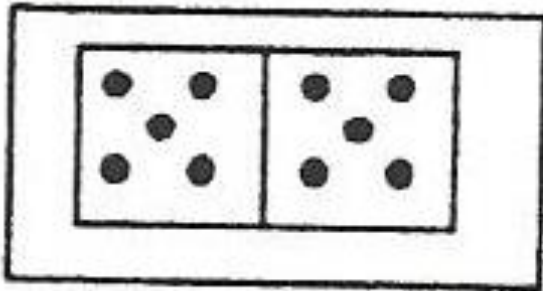
Arrays
 $8 \div 2$



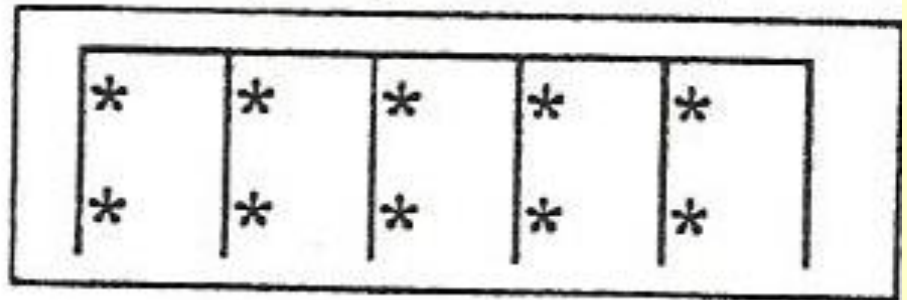
or



Sharing $10 \div 2$



Grouping $10 \div 2$



Halving by
partitioning

$$16 = 10 + 6$$

$$5 + 3 = 13$$