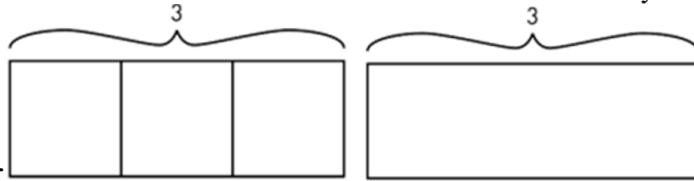
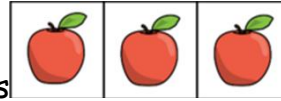


Ideas for what to do at home

- Use practical resources
- For reasoning, always ask, "Why?" Find an, "Odd one out."

- Practice bar modelling: Start with pictures



Then move to abstract

"What's the first thing we know?"

What's the next thing we know?"

What do we need to know?"

- Encourage missing number box problems.
- For older children make sure the numbers are big enough.
- Maths games at home: Dominoes, Triominoes, Top Trumps, Yahtzee, Number scrabble, snap cards, Sudoku.
- Possible websites: Topmarks, Maths starters, Lola Landscore, Creative star, Daily Sudoku for kids, Numberblocks (Cbeebies).

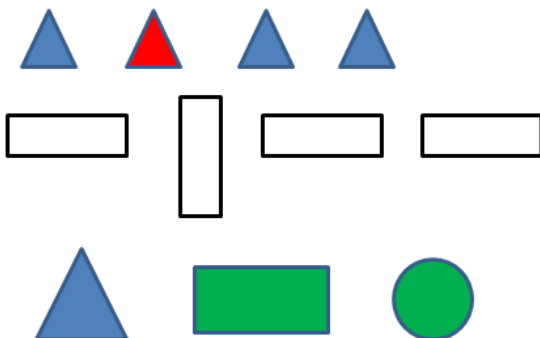
Reception

Odd one out?

3 + 1, 3 + 1, 3 + 2, 3 + 1

2, 2, 2, 3

three, five, 7, ten



Show me...

One more than 4...

- Bunny ears to make 5.

Year 1

2. Complete these number sentences:



$$\square + \square = \square$$



$$15 - 6 = \square$$

3. Complete these calculations:

$$13 + 5 = \dots \quad 14 + 0 = \dots \quad 7 + \dots = 11 \quad 16 - 13 = \dots$$

- What are the first 5 multiples of 10?

- Work out 6×5

- Find the missing number:

$$2 \times \square = 18$$

$$\square \times 5 = 35$$

$$90 = 10 \times \square$$

Year 2

Complete the calculations.

$$30 + 40 + \square = 100$$

$$40 + \square + 20 = 100$$

$$36 + 44 + \square = 100$$

$$36 + 54 + \square = 100$$

$$47 + \square + 20 = 100$$

$$47 + \square + 30 = 100$$

- Here are some number cards. Use them to fill in each number sentence below.



$$\begin{array}{l} _ \times _ = _ \\ _ = _ \times _ \\ _ \div _ = _ \\ _ = _ \div _ \end{array}$$

Year 3

1.

What do you notice?

Is there a relationship between the calculations?

$500 + 400 =$	$523 + 400 =$	$523 + 28 =$
$400 + 500 =$	$423 + 500 =$	$423 + 28 =$
$300 + 600 =$	$323 + 600 =$	$323 + 28 =$
$200 + 700 =$	$223 + 700 =$	$223 + 28 =$
$100 + 800 =$	$123 + 800 =$	$123 + 28 =$

- Calculate:

$$3 \times 4 = \quad 4 \times 7 = \quad 8 \times 3 =$$

- If I know $3 \times 8 = 24$. What other multiplication and division facts do I know?

2. Complete these calculations. What do you notice?

$3 + 7 =$	$8 + 2 =$	$6 + 4 =$
$30 + 70 =$	$80 + 20 =$	$60 + 40 =$
$33 + 7 =$	$88 + 2 =$	$66 + 4 =$
$333 + 7 =$	$888 + 2 =$	$666 + 4 =$
$300 + 700 =$	$800 + 200 =$	$600 + 400 =$

- Fill in the gaps

$$3 \times _ = 24$$

$$_ = 56 \div 8$$

$$6 \times 4 = 8 \times _$$

Year 4

2. There are 3470 young football players in the local area. 1682 of them are boys. How many of them are girls?

a) Amy draws a diagram to help answer the problem. Which is the correct diagram?

3470	
Girls	1682

Girls	
1682	3470

1682	
3470	Girls

b) Solve the problem

- Find the answers:
 $4 \times 12 =$ $5 \times 9 =$
 $7 \times 8 =$ $8 \times 11 =$
- Fill in the gaps:
 $4 \times \underline{\quad} = 12$ $8 \times \underline{\quad} = 64$
 $32 = 4 \times \underline{\quad}$ $6 = 24 \div \underline{\quad}$
- Leila has 6 bags with 5 apples in each. How many apples does she have altogether?

Year 5

a) Amy draws a diagram to help answer the problem. Which is the correct diagram?

48 087		
36 852	Neutral Supporters	7 816

Neutral Supporters		
36 852	7 816	48 087

36 852		
7 816	48 087	Neutral Supporters

b) Solve the problem

-
- Solve:

$$345 \times 10 =$$
$$345 \times 100 =$$

- Fill the gaps:

$$3790 \times \square = 379000$$

$$3790 \div \square = 379$$

$$\square \times 1000 = 497200$$

- Harry has £20, he wants to save 10 times this amount. How much more does he need to save?

Year 6

3.

Find numbers to complete these number sentences.

$$736 \div 23 = \square \quad \square \times 100 = 2400 \quad \square \times 100 = 10 \times \square$$

$$7360 \div 230 = \square \quad 25 \times \square = 200 \quad 25 \times \square = 4 \times \square$$

$$230 \times 24 = \square \quad 23 \times \square = 161 \quad 23 \times \square = 161 \times \square$$

$$240 \times 23 = \square \quad 24 \times \square = 168 \quad 24 \times \square = 168 \times \square$$

$$1668 \div 8 = \square \quad 161 \div \square = 23 \quad 161 \div \square = 23 \times \square$$

$$2085 \times 8 = \square \quad \square \div 25 = 9 \quad \square \div 25 = 9 \times \square$$

- 2538 people applied to be in a T.V. show audience. 14 people were invited to each show. How many shows did they make with full audiences and how many people were not invited?
- Work out $5834 \div 26$
- Work out the missing number:
 $5792 \div 16 =$