

## **Exemplification for Year 1 Expected Standard in Mathematics**

### **Key Performance Indicators for Moderation**

The year 1 mathematics moderation document exemplifies key performance indicators of the expected standard in mathematics at year 1. It is not a planning or assessment tool as it does not cover the entire year 1 programme of study.

It should be used to support the moderation of teacher judgements when assessing the extent to which a child has demonstrated the expected standard for year 1 through the application of these indicators in a range of problem solving situations.

Thank you to everyone involved from Nottingham City primary schools in the production of these materials.

# Exemplification for Year 1 Expected Standard in Mathematics

## Key Performance Indicators for Moderation

### Number and Place Value

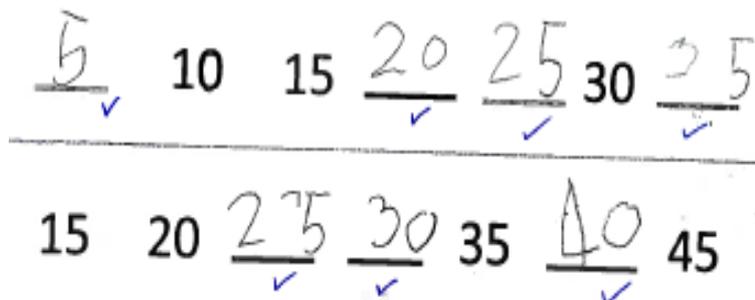
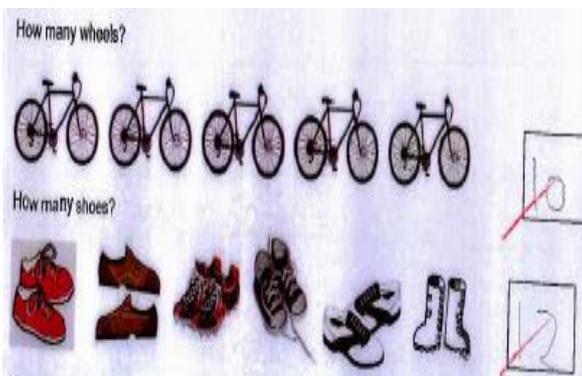
Counts to and across 100, forwards and backwards, beginning with 0 or one, or from any given number



Count forwards from 80 to 110

Count backwards from 105

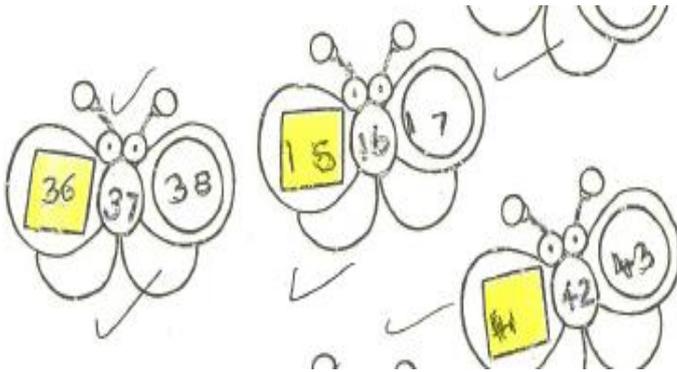
Reads and writes numbers to 100 in numerals; counts in multiples of twos, fives and tens



Make a label to show how many things were in your collection

Count groups of 10 each of 2p, 5p and 10p coins

Given a number, identifies one more and one less



1 more than 15 = 16

1 more than 18 = 19

1 more than 11 = 12

Identifies and represents numbers using objects and pictorial representations including the number line, and uses the language of: equal to, more than, less than (fewer), most, least

Benjamin has 20 marbles. He loses 10 marbles. How many marbles does he have left?

$20 - 10 = 10$

36

86

53

15

$10 - 9 = 1$

$17 - 12 = 5$

$16 - 13 = 3$

There are 5 balloons in the sky. 6 more balloons float up. How many balloons are there altogether?

5 + 6 = 11

## Addition and Subtraction

Represents and uses number bonds and related subtraction facts within 20

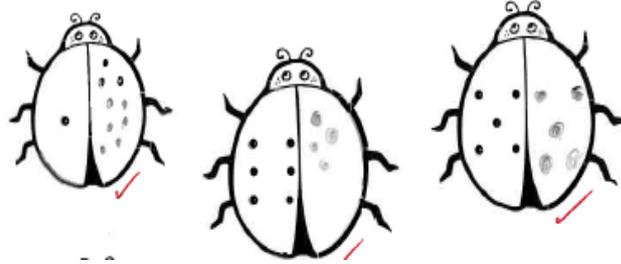
How many different ways can you add 3 numbers and get 14?



0 1 2 3 4 5 6 7 8 9

9 +	2 +	3	✓	= 14
8 +	3 +	3	✓	= 14
5 +	5 +	4	✓	= 14
4 +	4 +	6	✓	= 14

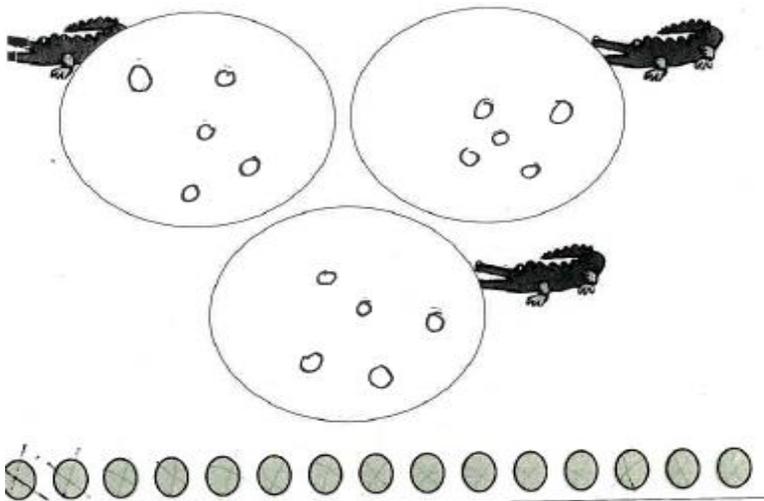
Each ladybird needs a total of 10 spots. Draw the missing spots on the right-hand side of each ladybird.



I know that 6 and 4 is 10. How can I find  $7 + 4$ ? How could you work it out?

## Multiplication and Division

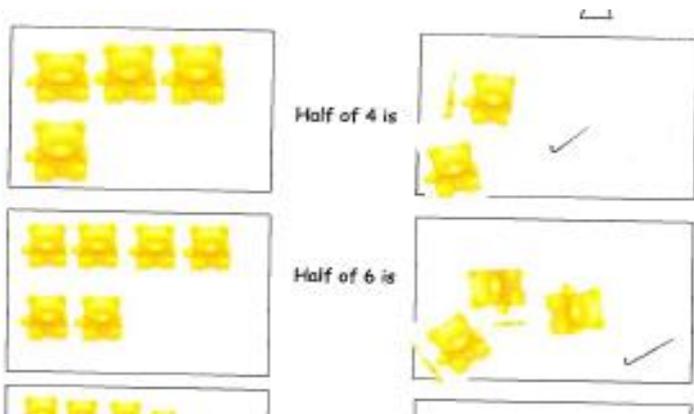
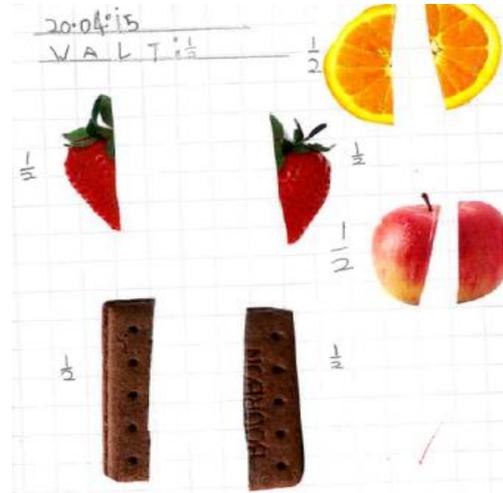
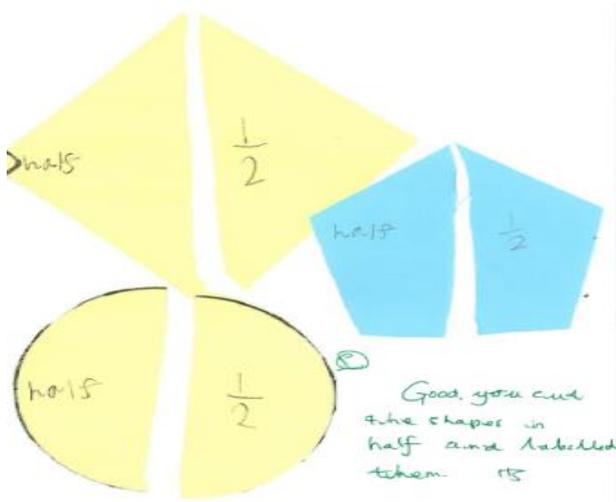
Uses practical apparatus, arrays and images to help solve multiplication and division problems



Share 15 eggs between 3 crocodiles.

# Fractions

Recognises, finds and names a half as one of two equal parts of an object, shape or quantity

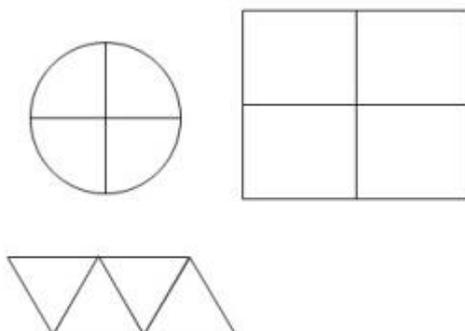


Handwritten notes: "Half of 20 is 10 ✓", "Half of 10 is 5 ✓", "Half of 4 is 2 ✓".

Here is a set of 12 pencils How many is half the set?



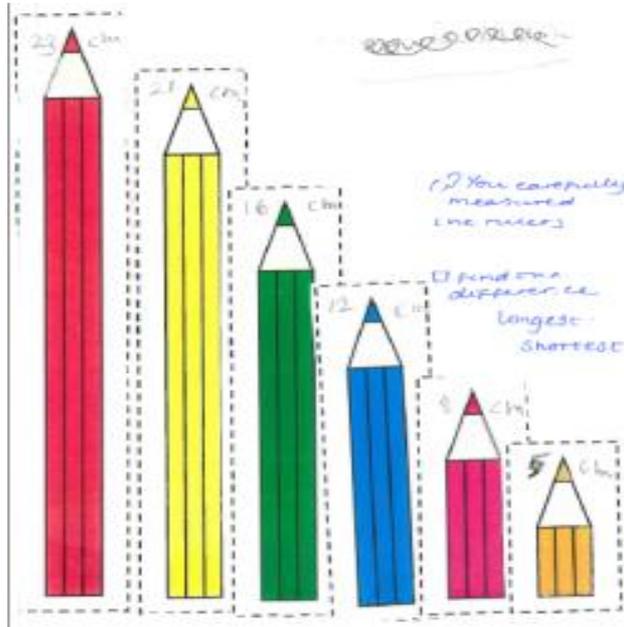
Shade one quarter of each shape



# Measurement

Compares, describes and solves practical problems for:

1. lengths and heights e.g. long/short, longer/shorter, tall/short, double/half



Is the table taller or shorter than a metre?

2. mass/weight e.g. heavy/light, heavier than, lighter than

1. SKISSORS = 6 CUBES ✓  
 2. RUBBER = 9 CUBES ✓

Which of these things do you think will weigh less than a kilogram?

3. capacity and volume e.g. full/empty, more than, less than, half, half full, quarter

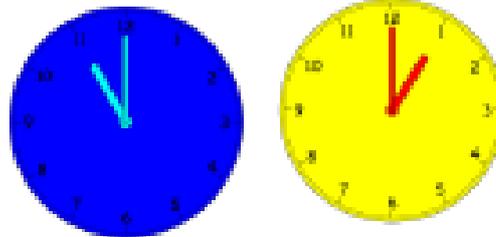
Draw the correct amount of liquid in each container.

 Half full	 Full	 Empty
 Nearly full	 Nearly empty	 12 ml
 Full	 nearly full	 Empty

half full

4. time e.g. quicker, slower, earlier, later

Peter is eating his lunch at half past 12. Jane is eating her lunch half an hour later. Tick the clock which shows when Jane eats her lunch.



Tells the time to the hour and half past the hour and draws the hands on a clock face to show these times



1/2 past 12 ✓		half past 2 ✓
	What time was it half an hour later?	
3 O'clock ✓		half past 2 ✓

## Recognises and knows the value of different denominations of coins and notes

Give change from ten pence in a shopping context

You spent	Number sentence	Coins
 7p	$10p - 7p = 3p$	1p 2p ✓
 5p	$10p - 5p = 5p$	5p ✓
 6p	$10p - 6p = 4p$	* 2p 2p ✓

WALT: I can choose the right coins to pay for an item up to 20 pence.

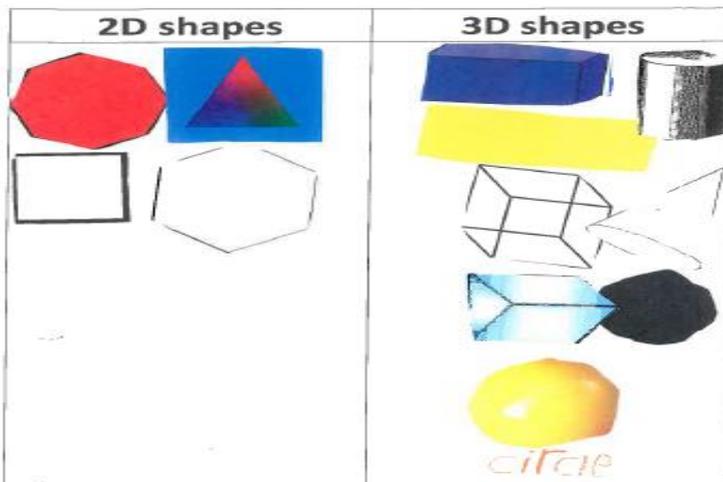
$14p = 10p + 2p + 2p$
$7p = 5p + 2p$ ✓
$13p = 10p + 2p + 1p$ ✓
$12p = 10p - 2p$ ✓
$14p = 10p + 2p + 2p$ ✓

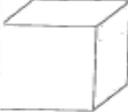
## Properties of shape

Recognises and names common 2-D and 3-D shapes, including:

2-D shapes e.g. rectangles (including squares), circles and triangles

3-D shapes e.g. cuboids (including cubes), pyramids and spheres



	Faces	Edges	Corners	What am I?	In the environment
	6	12	8	cube	a dice ✓
	3	2	0	cylinder	a bin ✓
	6	12	8	cuboid	cardboard box ✓