**Level 2**

**PROMPT sheet**

**2/1 To count by grouping**

**Example1**: Here are 20 sweets to share

 Each child gets 5 sweets

 How many children are there?

Divide them up into groups of 5 sweets-like this







There must be 4 children

**Example2**: Here are 12 marbles to share

 There are 4 children.

 How many marbles does each get?

Divide them up into 4 groups - like this



Each child gets 3 marbles

**2/2 To order numbers**

Numbers can be ordered by looking at the value of each digit

Example:

To order 83 3 87 8 80 78

 Tens Units

 **T** **U**

 **8** **3**

 0 **3**

 **8** **7**

 **0** **8**

 **8** **0**

 **7** **8**

The order would be;

**3 8 78 80 83 87**

smallest largest

**2/3 Numbers sequences**

**Look to see what you already know**

Example1: 1 4 7 10 ..... .....

 +3 +3 +3

* The numbers are going up- ascending
* They go up by 3 each time
* Continue with this rule

1 4 7 10 13 16

 +3 +3

Example1: 13 11 9 7 ..... .....

 -2 -2 -2

* The numbers are going down - descending
* They go down by 2 each time
* Continue with this rule-count backwards

13 11 9 7 5 3

 -2 -2

**2/4 Know the 2, 5, 10 times tables**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | x | 2 | = | 2 |
| 2 | x | 2 | = | 4 |
| 3 | x | 2 | = | 6 |
| 4 | x | 2 | = | 8 |
| 5 | x | 2 | = | 10 |
| 6 | x | 2 | = | 12 |
| 7 | x | 2 | = | 14 |
| 8 | x | 2 | = | 16 |
| 9 | x | 2 | = | 18 |
| 10 | x | 2 | = | 20 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | x | 5 | = | 5 |
| 2 | x | 5 | = | 10 |
| 3 | x | 5 | = | 15 |
| 4 | x | 5 | = | 20 |
| 5 | x | 5 | = | 25 |
| 6 | x | 5 | = | 30 |
| 7 | x | 5 | = | 35 |
| 8 | x | 5 | = | 40 |
| 9 | x | 5 | = | 45 |
| 10 | x | 5 | = | 50 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | x | 10 | = | 10 |
| 2 | x | 10 | = | 20 |
| 3 | x | 10 | = | 30 |
| 4 | x | 10 | = | 40 |
| 5 | x | 10 | = | 50 |
| 6 | x | 10 | = | 60 |
| 7 | x | 10 | = | 70 |
| 8 | x | 10 | = | 80 |
| 9 | x | 10 | = | 90 |
| 10 | x | 10 | = | 100 |

**2/5 Work out halves and quarters**

**To work out a half**

Split into two equal parts

 **YES NO!!!!**





**10 sweets ÷ 2 = 5 sweets**

**To work out a quarter**

Split into four equal parts



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**8 strawberries ÷ 4 = 2 strawberries**

**2/6 Subtraction is the inverse of addition**



=

+

 3 + 2 = 5



-

 5 - 2 = 3



-

 5 - 3 = 2

Matching subtraction facts for an addition sum

 3 + 2 = 5

1. - 2 = 3 5 - 3 = 2
2. + 4 = 10

 10 – 6 = 4 10 – 4 = 6

**2/7 Halving as a way of undoing doubling**



 3 **DOUBLE** 6

 5 10



 3 **HALF** 6

 5 10

**2/8 Number bonds (Friends) to 10**

****

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  | **10** |
|  **1**  |  |  |  |  |  |  |  |  |  **9** |
|   |  2  |  |  |  |  |  |  |  |  8 |
|   |   |  3 |  |  |  |  |  |  |  7 |
|   |   |  |  4 |  |  |  |  |  |  6 |
|   |   |  |  |  5 |  |  |  |  |  5 |
|   |   |  |  |  | 6 |  |  |  |  4 |
|   |   |  |  |  |  | 7 |  |  |  3 |
|   |   |  |  |  |  |  |  8 |  |  2 |
|   |   |  |  |  |  |  |  |  9 |  1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0 + 10 | 1 + 9 | 2 + 8 | 3 + 7 | 4 + 6 |
| 10 + 0 | 9 + 1 | 8 + 2 | 7 + 3 | 6 + 4 |
|  |  | 5 + 5 |  |  |

These are so good to learn – believe me



**2/9 Mental calculation strategies**

**DOUBLES – you should know all of them**

Double 1 (1 + 1) = 2 OR 2 x 1 = 2

Double 2 (2 + 2) = 4 OR 2 x 2 = 4

Double 3 (3 + 3) = 6 OR 2 x 3 = 6

Double 4 (4 + 4) = 8 OR 2 x 4 = 8

Double 5 (5 + 5) = 10 OR 2 x 5 = 10

Double 6 (6 + 6) = 12 OR 2 x 6 = 12

Double 7 (7 + 7) = 14 OR 2 x 7 = 14

Double 8 (8 + 8) = 16 OR 2 x 8 = 16

Double 9 (9 + 9) = 18 OR 2 x 9 = 18

Double 10 (10 + 10) = 20 OR 2 x 10 = 20

Another double



+ =

**2/10 Repeated addition (Multiplication)**



Here are 3 footballers.

How many legs do they have altogether?

Addition sentence Multiplication sentence

 2 + 2 + 2 = 6 3 x 2 = 6

Repeated addition is the same as multiplication

|  |  |
| --- | --- |
| **Addition sentence** | **Multiplication sentence** |
| 5 + 5 + 5 + 5 = 20 | **4 x 5 = 20** |
| 10 + 10 + 10 = 30 | **3 x 10 = 30** |

**2/10 Repeated subtraction (Division)**

Repeated subtraction is the same as division

**15**

This is the same as 15 ÷ 5 = 3

Because 5 has been subtracted 3 times to get to 0

**-5 (1)**

**10**

**-5 (2)**

 **5**

**-5 (3)**

 **0**

**2/11 Solve number problems**

* **The order can be changed**

**Example:**

 13 + 6 + 7 = **13 + 7** + 6 = **20** + 6 = 26

* **The number can be partitioned**

**Example:**

10 + **15** = 10 + **10 + 5** = 20 + 5 = 25

* **A partial number line can be used**

**Example:**

**37 + 8 = 45**

 **+8**

 **+3 +5**

 **37 40 45**

**22 – 3 = 19**

 **-1 -2**

 **19 20 22**

**2/12 Record work as a number sentence**

**Example 1**

There are 12 people on a bus.

At the next stop 4 people get off and 7 get on

How many are on the bus now?

**Number sentence**

12 – 4 + 7 = **15**

**Example 2**

Pavan’s cat weighs 18kg. Olivia’s dog weighs 32kg. How much heavier is Olivia’s dog?

**Number sentence**

32 – 18 = **14**

**Example 3**

Sana had 50p. She spent 24p. How much did she have left?

**Number sentence**

50 - 24 = **26p**

**Example 4**

Aabid has 20p and Claudia has 41p. How much do they have altogether?

**Number sentence**

20 + 41 = **61p**

**2/13 Names of 2D shapes**

 Triangle Square Pentagon

****

Hexagon Circle Octagon

**2/13 Names of 3D shapes**

 **cube cylinder cuboid**



 **pyramid sphere**

**2/14 Properties of shapes**

 **corner edge face**

**curved surface**

**2/15 Describe position of objects**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

The yellow square is above the orange cylinder

The sphere is to the left of the pink hexagon

The blue cuboid is below the red circle

**2/16 & 17 Describe position of objects**

 **A quarter turn**

 **clockwise**

 **A quarter turn**

 **anti-clockwise**

 **A half turn**

**2/18 Use measures**

**METRIC units of length are**:

Millimetre (mm)

Centimetre (cm)

Metre (m)

Kilometre (km)

2cm = 20mm 4.5cm = 45mm

1cm = 10mm





* A big stride is about a metre



* Distance to Dublin is measured in kilometres

**METRIC units of weight are:**

Gram (g)

Kilogram (kg)



1 kilogram(kg) = 1000grams(g)



* An apple weighs 150grams

****

* Baby chimp weighs 3kg

**METRIC units of capacity (liquids) are:**

Millilitre

Centilitre

Litre



* A medicine spoon holds 5ml



* A 5-litre bucket



Fuel for the car is measured in litres

**2/19 Sorting**

**Carroll Diagram** to sort these numbers:

26 5 14 30 55 8 35 37

|  |  |  |
| --- | --- | --- |
|  | **Multiples of 5** | **NOT multiples of 5** |
| **Less than 30** | 5 | 26 14 8 |
| **NOT less than 30** | 30 55 35 | 37 |

**Venn Diagram** to sort these shapes



Set R contains shapes with a right-angle (90°).
Set Q contains shapes with four sides.

 R Q

 6 3

 2 1 5

 4 7 8

 9

**2/23 Record & communicate findings**

* **Frequency table of recycling**

|  |  |  |
| --- | --- | --- |
| **Item** | **Frequency (tally)** | **Total** |
| Plastic |  l l l l 1111 | 10 |
| Glass | 1111 | 4 |
| Cardboard | 1111 1 | 6 |
| Recyclable steel | l  | 1 |
| Aluminium cans | l l l l 11 | 7 |
| Other | l l l l 1111  | 9 |

* **Bar chart of animals kept**
* **Pictogram of football teams**

**KEY: Each badge represents 2 people**

|  |
| --- |
| Manchester Utdman-utd-logoman-utd-logoman-utd-logo |
| Darlingtonhttp://www.thenorthernecho.co.uk/resources/images/733788/?type=displayhttp://www.thenorthernecho.co.uk/resources/images/733788/?type=displayhttp://www.thenorthernecho.co.uk/resources/images/733788/?type=displayhttp://www.thenorthernecho.co.uk/resources/images/733788/?type=displayhttp://www.thenorthernecho.co.uk/resources/images/733788/?type=display |
| Liverpoolliverpool_logoliverpool_logo |
| Newcastle http://modifiedlimitedhangout.com/storage/NUFC_Logo.png?__SQUARESPACE_CACHEVERSION=1317002114312http://modifiedlimitedhangout.com/storage/NUFC_Logo.png?__SQUARESPACE_CACHEVERSION=1317002114312http://modifiedlimitedhangout.com/storage/NUFC_Logo.png?__SQUARESPACE_CACHEVERSION=1317002114312http://modifiedlimitedhangout.com/storage/NUFC_Logo.png?__SQUARESPACE_CACHEVERSION=1317002114312 |

* **Reading the pictogram using the key we have:**

Manchester = 6 people

Darlington = 10 people

Liverpool = 3 people

Newcastle = 8 people