

## Photocopiable worksheets

Photocopiable worksheets offer instant teaching resources targeting key strands of the primary framework for mathematics.

A summary of learning objectives addressed is detailed below:

| Strand                                  | Y3  | Y4   | Y5  | Y6   |
|---|---|--|---|--|
| <b>Using &amp; applying mathematics</b> | To solve one step problems involving numbers            | To solve one and two step problems involving numbers |   | To solve multi step problems involving percentages |
| <b>Calculating</b>                      |   | To find fractions of numbers                         |   |  |
| <b>Measuring</b>                        | To calculate time intervals                             | To calculate time intervals from timetables          | To use a calendar to calculate time intervals | To convert between units of measure using decimals |
| <b>Handling data</b>                    | To use tally charts and pictograms to represent results |  |   |  |

At the end of the section you will also find a Just for Fun worksheet for keen number crunchers to get their maths brain stuck into.

## Animal challenge

**LO: to solve one step problems involving numbers**

On Saturday, these animals arrived at Wood Green:



| Animal     | Number arrived |
|------------|----------------|
| Cat        | 7              |
| Dog        | 8              |
| Guinea pig | 2              |
| Horse      | 1              |
| Rabbit     | 3              |
| Chickens   | 17             |
| Goats      | 4              |

How many cats and rabbits arrived on Saturday at Wood Green?

How many field animals (horses, goats and chickens) arrived on Saturday at Wood Green?

How many animals in total arrived at Wood Green on Saturday?

Of the 3 rabbits one was pregnant and could have 6 kittens. How many rabbits in total would that make from this day?

On Sunday 6 more rabbits arrived and 7 dogs. How many rabbits and dogs in total arrived over the weekend?

**Extension: Make your own table of animal numbers arriving on Monday. Can you challenge a friend with some new questions about these animals?**

## Pet Problems

**LO:** to solve one and two step problems involving numbers

The following table shows the average stay at Wood Green for an animal looking for a new home:



| Animal     | Average stay in days |
|------------|----------------------|
| Dog        | 31                   |
| Cat        | 36                   |
| Rabbit     | 53                   |
| Guinea pig | 64                   |
| Rodent     | 52                   |
| Ferret     | 80                   |
| Horse      | 127                  |
| Goat       | 103                  |
| Chicken    | 23                   |
| Sheep      | 66                   |

How long on average did a rabbit stay at Wood Green before finding a new home?

How many days more on average did a sheep stay at Wood Green than a rabbit before finding a new home?

Humphrey the rabbit only stayed at Wood Green for 23 days before a family rehomed him to live with their lonely rabbit. How much shorter was his stay than the average rabbit?

Flopsy the girl rabbit spent 24 days at Wood Green until she was healthy enough to live with Fred the boy rabbit. She then spent another 17 days sharing with Fred before they were both rehomed. How many days in total did Flopsy spend at Wood Green?

### Extension questions:

What is the difference in days between the longest average for an animal to stay and the shortest average for an animal to stay?

Can you create your own questions for a friend to answer using the average stay numbers?

## Pet percentages

**LO: to solve multi-step problems involving percentages**

Wood Green the Animals Charity at Godmanchester rehomed the following animals during a year:



| Type of animal | Number | % of total |
|----------------|--------|------------|
| Dog            | 1842   |            |
| Cat            | 1170   |            |
| Rabbit         | 124    |            |
| Guinea pig     | 132    |            |
| Rodent         | 187    |            |
| Chicken        | 201    |            |
| Goat           | 41     |            |

In the blank column, can you calculate the % of the total of each animal rehomed?

What % of all animals rehomed were small animals (rabbits, guinea pigs and rodents)?

What % of all the animals rehomed in this year were an animal other than a cat or a dog?

### Extension

If in the same year 45 sheep were rehomed and this figure had increased by 25% compared to the previous year, how many sheep were rehomed in the previous year?

## Furry fractions

LO: to find fractions of numbers

20 rabbits arrived at Wood Green in one week.  $\frac{1}{5}$  of the rabbits were stray and had been found lost hopping around loose. How many rabbits were stray?

Of the 20 rabbits,  $\frac{1}{4}$  had overgrown teeth from not eating enough hay and fruit tree branches in their diet. How many rabbits had overgrown teeth?

**All rabbits need at a rabbit friend to live with to stay happy.** In one busy month 24 rabbits arrived at Wood Green and  $\frac{3}{8}$  of these rabbits had been living on their own. How many rabbits was this?



Of the 24 rabbits,  $\frac{3}{4}$  had been eating rabbit muesli instead of healthy rabbit pellets. How many rabbits had been eating healthy rabbit food?

### Extension

Wood Green has a waiting list of rabbits waiting to come into one of their centres to find a new home. On one day in 2012 there were 160 rabbits on the waiting list,  $\frac{1}{8}$  of which were rabbits that had been bought as a pet and were no longer wanted. How many rabbits were unwanted pets?

