



MATHS HOMEWORK = HELP

Data Handling

1) The table below shows the weight in kilograms and pet of 5 children in my class.

Name	Weight (kg)	Pet
Lucy	24kg	Cat
Jack	32kg	Fish
Aidan	35kg	Rabbit
Sarah	27kg	Dog
Amy	21kg	Cat

- Which 2 children have a cat as a pet?
- Who is the lightest?
- Who is the heaviest?
- What pet does the child who weighs 32kg have?
- Put the children in order starting with the lightest?

2) Below are the results for 5 counties during a 100m running race.

County	Time
Surrey	12:32
Hampshire	13:17
Berkshire	12:04
Buckinghamshire	12:49
Oxfordshire	13:06

- a) Which county won the race?
- b) Which county came last?
- c) How many counties ran the race in less than 13 seconds?
- d) Which 2 counties ran the race in over 13 seconds?

3) Below shows a bus timetable for a busy town centre.

	Bus A	Bus B	Bus C	Bus D
Bus Station	08:30	08:45	08:55	09:20
Library	08:40	08:55	09:05	09:30
Town Hall	08:45	—	09:10	09:35
Supermarket	08:55	09:05	09:20	—
Cathedral	09:10	09:20	—	09:50
Bus Station	09:20	09:30	09:35	10:00

- a) Which bus does not stop at the cathedral?

- b) Which bus would I need to take in order to be at the supermarket by 9.15am?

- c) Which bus would I need to take in order to be at the library by 9.00am?

- d) Which bus does not stop at the town hall?

- e) Which bus would I need to take in order to be at the cathedral just before 10.00am?



Answers

1) The table below shows the weight in kilograms and pet of 5 children in my class.

Name	Weight (kg)	Pet
Lucy	24kg	Cat
Jack	32kg	Fish
Aidan	35kg	Rabbit
Sarah	27kg	Dog
Amy	21kg	Cat

a) Which 2 children have a cat as a pet? **Lucy** **Amy**

b) Who is the lightest? **Amy**

c) Who is the heaviest? **Aidan**

d) What pet does the child who weighs 32kg have? **Fish**

e) Put the children in order starting with the lightest?

 Amy **Lucy** **Sarah** **Jack** **Aidan**

2) Below are the results for 5 counties during a 100m running race.

County	Time
Surrey	12:32
Hampshire	13:17
Berkshire	12:04
Buckinghamshire	12:49
Oxfordshire	13:06

- a) Which county won the race? **Berkshire**
- b) Which county came last? **Hampshire**
- c) How many counties ran the race in less than 13 seconds? **3**
- d) Which 2 counties ran the race in over 13 seconds?
Hampshire & Oxfordshire

3) Below shows a bus timetable for a busy town centre.

	Bus A	Bus B	Bus C	Bus D
Bus Station	08:30	08:45	08:55	09:20
Library	08:40	08:55	09:05	09:30
Town Hall	08:45	—	09:10	09:35
Supermarket	08:55	09:05	09:20	—
Cathedral	09:10	09:20	—	09:50
Bus Station	09:20	09:30	09:35	10:00

- a) Which bus does not stop at the cathedral? **Bus C**
- b) Which bus would I need to take in order to be at the supermarket by 9.15am? **Bus B**
- c) Which bus would I need to take in order to be at the library by 9.00am? **Bus B**
- d) Which bus does not stop at the town hall? **Bus B**
- e) Which bus would I need to take in order to be at the cathedral just before 10.00am? **Bus D**



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Tips and Techniques

1. Read each question slowly. You may find it helpful to underline the numbers and important information that will affect your answer.

For example: Find 23 more than 57?

2. If you do not understand the question straightaway, try reading it through a couple of times until it makes sense.

3. Make sure you read the question carefully. Often, the words highlighted in bold in the question will be the part you need to pay the most attention to, e.g. *Which country had the **greatest increase** in visitors from 2005 to 2006?*

4. Even if you know the answer to the question without working it out on paper, it is important to always show your working out in the box provided. You will lose marks if you do not do this.

5. Always use a ruler when drawing shapes, symmetry or graphs.

6. Topics that are useful to revise;

* **Time** - 24 hour clock, adding a length of time e.g. 45 minutes to a certain time. An example of a question where time is used is - *"The time is one thirty in the afternoon. Write this as it would be shown on a twenty-four hour clock?"*

* **Money** - find the total amount of shopping items, how much change will you get from a £5, £10 note etc.

* **Number calculations** - times tables, addition, subtraction, multiplication and division methods.

* **Measurement** - how many metres in a kilometre, millilitres in a litre and grams in a kilogram?

* **Percentages and fractions** - $1/2=0.5$ or 50%, $1/4=0.25$ or 25%, $3/4=0.75$ or 75%, $1/3=0.33$ or 33%, $1/5=0.2$ or 20%

7. Check to see how many marks the question is worth. If it is worth more than one mark, make sure you show your working out.

8. Use everyday objects to help your child practice certain topics. For example; a shopping receipt can be good revision for money questions - adding totals and finding change. Other useful objects that you could use are;

* **Television Guide** - Practice the time a programme starts, what time will it finish? how long does the programme last?

* **Weather Chart** - Change in temperature - e.g. *The temperature fell from 3 degrees celsius to -4 degrees celsius. By how many degrees did the temperature fall?*

* **Measure yourself and other family members to practice height** (in cm, metres), weight (in grams, kilograms), area of hands and feet. You could also calculate the average family height, weight etc.