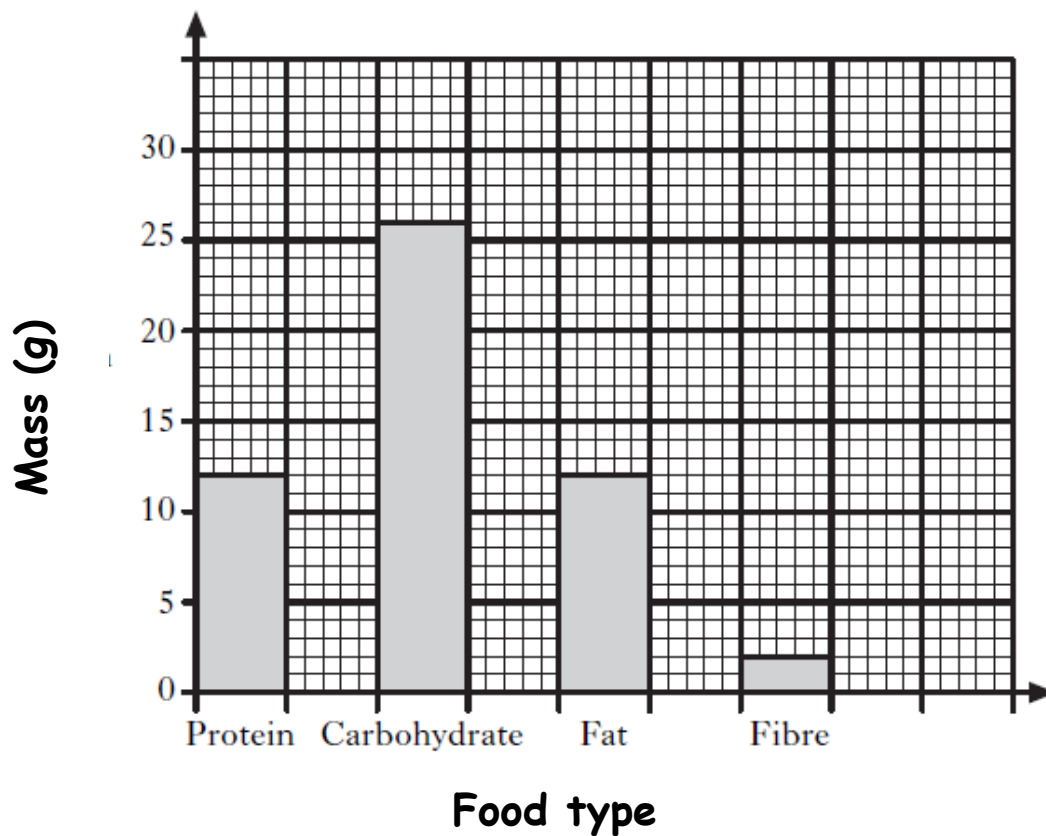


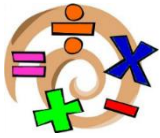
## Problem Solving Homework

Complete the following homework in your jotter

1. The following bar chart shows the nutritional content of a 100g pizza.



- a) What mass of carbohydrate is in this pizza? (1)
- b) How much more protein than fibre does this pizza contain? (1)



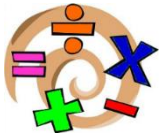
2. Christine measures the height of the members of the eco-group and produces them in the table below. There are 6 girls and 2 boys in the group.

| Height (cm) |     |     |     |     |     |     |     |
|-------------|-----|-----|-----|-----|-----|-----|-----|
| 150         | 147 | 175 | 163 | 146 | 158 | 145 | 167 |

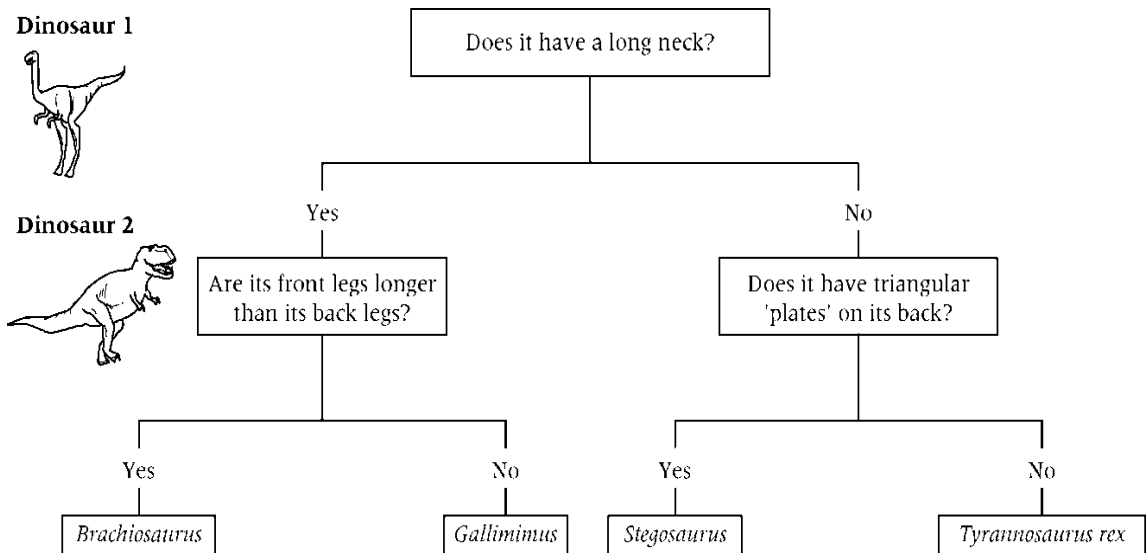
- a) Calculate the average height of the eco-group. (1)
- b) What is the simple whole number ratio of boys to girls in the eco-group? (1)
- c) What is the simplest whole number ratio of the first height measured to the third height measured? (1)

3. Jelly babies were weighed and then placed into water. They were left for 30 minutes and then dried and reweighed. Copy and complete the table below to calculate the percentage change for each jelly baby. (3)

| Initial weight | Final weight | Percentage change |
|----------------|--------------|-------------------|
| 5 g            | 3.5 g        |                   |
| 6 g            | 2 g          |                   |
| 3 g            | 1.2 g        |                   |



4. Use the branched key to identify the two types of dinosaur:



Dinosaur 1:

Dinosaur 2:

(2)

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