S2 skills homework - October - Percentages

- 1. To Calculate a percentage first work out the fraction
- 2. Then multiply the fraction by 100

<u>OR</u>

- 1. To calculate a figure from a percentage write the percentage as a fraction of 100
- 2. Then multiply this fraction by the total number

Write down the following as a percentage

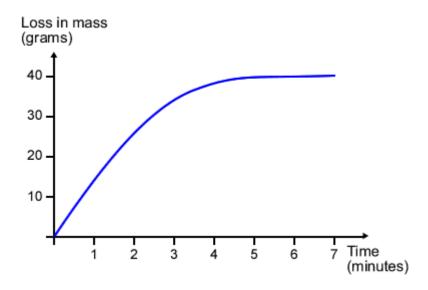
- 1. 24 out of 48
- 2. 6 out of 24
- 3. 5 out of 40
- 4. 10 out of 1000
- 5. 19 out of 20

Calculate the following values

- 6. 20% of 40
- 7. 1% of 150
- 8. 15% of 300
- 9. 25% of 4
- 10. 50% of 36
- 11. The table below contains the nutritional information for a can of beans. Copy and complete the table with the missing percentage weights

	Mass in food (g)	Percentage Mass	
Carbohydrate	37.5		
Fat	15		
Protein	7.5		
Water	90		
TOTAL	150		

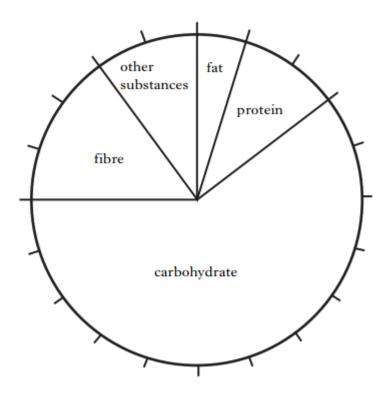
12. A chemistry pupil is studying the reaction between marble chips and Hydrochloric. Each of the chips has a mass of 65g before the starting the experiment.



- a. How long did it take for the reaction to stop?
- b. What was the mass of the chip after 2 minutes?
- c. What percentage of the chip was remaining after the reaction had finished?
- 13. The waste from a local food processing factory is shown in the table below. Copy and complete the table with the missing values of mass

	Mass in waste (kg)	Percentage Mass	
Potato peelings		2	
Fruit pulp		5	
Milk whey		25	
Paper		45	
Sewage		18	
Micro – organisms		5	
TOTAL	500		

14. Oatmeal and Wheatmeal are two cereal products. The pie chart below gives information about compounds found in **Oatmeal**



Wheatmeal contains less fibre and more protein than oatmeal. The proportions of all the other components are the same.

a. Use all the information provided to copy and complete the following table.

	Component (%)					
	Protein	Carbohydrate	Fat	Fibre	Other substances	
Oatmeal			5		10	
Wheatmeal	15			10	10	

b. Calculate the mass of **protein** present in an 80g portion of **Wheatmeal**