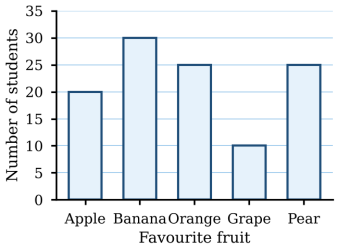
Day 346 **B Tier 10-a-day**

1 The bar chart shows some information.
(a) Write down the mode.
(b) What fraction of the total is Orange? Give your answer in its simplest form.

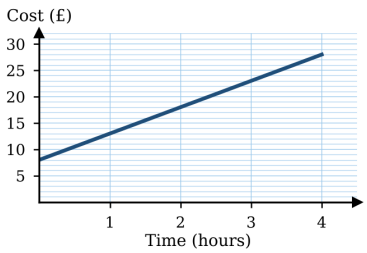


2 (a) Write down the number of lines of symmetry of a regular hexagon.
(b) Write down the order of rotational symmetry of a regular hexagon.

3 Gita and Amy share 117 sweets in the ratio 7 : 6.
Work out how many Gita gets.

4 Work out
(a) 6.4 × 0.4
(b) 0.18 × 3

5 A plumber charges a call-out fee plus a cost for each hour of work.
The graph shows the total cost.
(a) Write down the fixed charge.
(b) Work out the cost for each hour.



Day 346	B Tier 10-a-day
6 A metal block has a density of 2.7 g/cm^3 and a volume of 30 cm^3. Work out its mass.	
7 A hiker walks 9 km north and then 12 km east. Work out the straight line distance from the start to the finish.	
8 Solve the simultaneous equations $x + y = 7$ $3x + 2y = 18$	
9 The length of a rectangle is 25 cm and its width is 28 cm. Both measurements are correct to the nearest cm. Work out the upper bound for the perimeter of the rectangle.	
10 The equation $x^3 - x = 51$ has a solution between 3 and 4. (Calculator) Use trial and improvement to find this solution. Give your answer correct to 1 decimal place.	