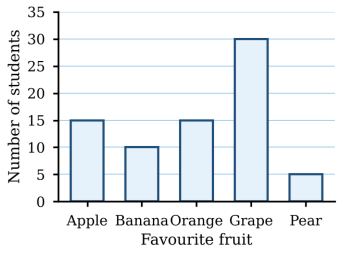
Day 256	B Tier 10-a-day

1 Simplify 6x + 9y + 6x + 8y

2 A water tank is $\frac{1}{3}$ full.
130 litres of water are added.
The water tank is now $\frac{2}{3}$ full.
Work out the capacity of the water tank.

3 A cube has volume 1000 cm^3.
Work out the side length of the cube.

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



5 M is the midpoint of AB.
A is the point (7, 8) and M is the point (4, 8).
Find the coordinates of B.

Day 256	B Tier 10-a-day
6 (a) Convert 0.75 kg to g. (b) Convert 2.5 m^3 to cm^3.	
7 Maya invests £200 in an account paying 5% compound interest per year. (Calculator) Work out the value of her investment after 2 years.	
8 In triangle XYZ, XY = 12 m, YZ = 17 m and angle XYZ = 65°. (Calculator) Work out the area of the triangle. Give your answer correct to 1 decimal place.	
9 A theme park sells adult tickets and child tickets. 4 adult tickets and 2 child tickets cost £64. 3 adult tickets and 2 child tickets cost £51. Work out the cost of one adult ticket and the cost of one child ticket.	
10 In a sale, the price of a sofa is reduced by 40%. (Calculator) Two weeks later it is reduced by a further 5% of the new price. The final price is £85.50. Work out the original price of the sofa.	