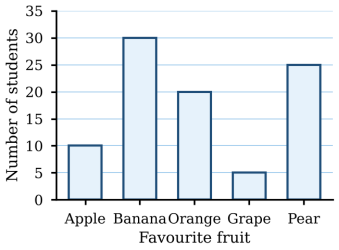
Day 38 **B Tier 10-a-day**

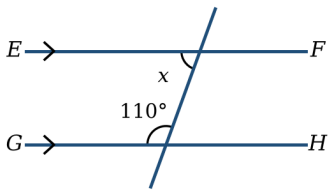
1 The bar chart shows some information.
(a) How many more were there for Banana than for Pear?
(b) Work out the total of all five bars.



2 Solve $8a + 10 = -46$

3 Mohammed has $\frac{9}{10}$ of £90.
Leah has 15% of £200.
Who has more money? You must show your working.

4 In the diagram, EF is parallel to GH.
(a) Work out the size of angle x.
(b) Give a reason for your answer.
The diagram is not drawn accurately.



5 £1 = 1.2 dollars
(a) Change £120 into dollars.
(b) Change $72 into pounds.

Day 38	B Tier 10-a-day
6 A shape is made from a rectangle and a semicircle. (Calculator) The rectangle is 16 cm wide and 20 cm high. The diameter of the semicircle is 16 cm. (a) Work out the area of the shape. (b) Work out the perimeter of the shape. Give each answer correct to 1 decimal place.	
7 Ravi invests £5000 in a savings account. (Calculator) The account pays 3% compound interest per year. Work out the amount in the account after 2 years. Give your answer to the nearest penny.	
8 Ali says, "The value of $n^2 + 5n + 11$ is a prime number for every positive whole number n." Show that Ali is wrong.	
9 In a sale, the price of a sofa is reduced by 50%. (Calculator) Two weeks later it is reduced by a further 50% of the new price. The final price is £25. Work out the original price of the sofa.	
10 Work out the gradient of the straight line that passes through the points $(-1, -3)$ and $(-6, 7)$.	