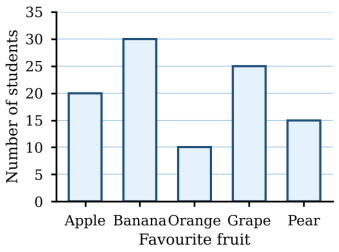
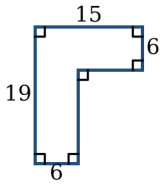
**Day 318** **B Tier 10-a-day**

**1** Here are four digit cards.
6 1 9 3
Use all four cards to make the largest possible number.
Work out the difference between the largest and smallest possible numbers.

**2** The bar chart shows some information.
(a) Which bar is the shortest?
(b) What percentage of the total is Banana?




**3** The diagram shows the shape of a playground.
All the corners are right angles. All lengths are in cm.
(a) Find the perimeter.
(b) Find the area.




**4** Tom has $\frac{1}{4}$ of £136.
Priya has 45% of £80.
Who has more money? You must show your working.

**5** Two fair six-sided spinners are spun.
Work out the probability that both spinners show the same number.

**Day 318** **B Tier 10-a-day**

**6** AB is a straight fence 10 m long.
A path is always exactly 2 m from the fence AB, on both sides, and also goes round each end.
Describe the shape of the path.

**7** Complete the table of values for $y = x^2 - x - 4$

| x | −2 | −1 | 0 | 1 | 2 | 3 |
|---|---|---|---|---|---|---|
| y | | | | | −2 | 2 |

**8** Here are the amounts needed to make a fruit crumble for 4 people.
60 g of sugar, 100 g of butter
Work out the amounts needed to make a fruit crumble for 7 people.

**9** A spacecraft travels at $7 \times 10^7$ km per hour.
It travels for $4.1 \times 10^2$ hours at this speed.
Work out how far it travels.
Give your answer in standard form.

**10** Work out the gradient of the straight line that passes through the points (5, 3) and (9, 11).