Day 18 **B Tier 10-a-day**

1 A hire company charges £9 plus £7 for each day a van is hired.
(a) Work out the total cost for 7 days.
(b) The total cost is £65. Work out the number of days.

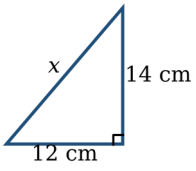
2 On a map, 1 cm represents 5 km.
Two towns are 6 cm apart on the map.
(a) Work out the real distance between the towns.
(b) Write the scale of the map in the form 1 : n.

3 The stem and leaf diagram shows 9 values.
(a) Find the median.
(b) Work out the range.

Stem	Leaf
2	0 3 5
3	0 5 8
4	0 2 9

Key: 2 | 0 means 20

4 Calculate the length of x. (Calculator)
Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.



5 Zara invests £2000 for 2 years.
The account pays 4% simple interest per year.
(a) Work out the interest earned each year.
(b) Work out the total amount in the account after 2 years.

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6 In a room, the ratio of Year 10 students to Year 11 students is 5 : 9. There are 18 Year 11 students. More Year 10 students join so that there are equal numbers of Year 10 students and Year 11 students. How many Year 10 students join?	
7 Expand and simplify $(x - 7)^2$	
8 In triangle PQR, PQ = 14 cm, QR = 11 cm and angle PQR = 48°. (Calculator) Work out the area of the triangle. Give your answer correct to 1 decimal place.	
9 A fuel tank is $\frac{1}{3}$ full. 25 litres of fuel are added. The fuel tank is now $\frac{1}{2}$ full. Work out the capacity of the fuel tank.	
10 The pie chart shows the favourite choices of 180 people. The angle for Pizza is not shown. Work out how many people chose Pizza. 