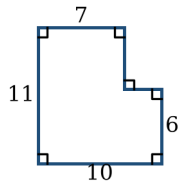
Day 186 **B Tier 10-a-day**

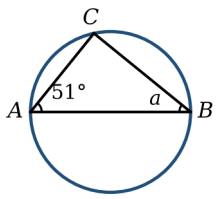
1 Work out the value of $5n - 9$ when $n = 8$

2 The diagram shows the shape of a garden.
All the corners are right angles. All lengths are in m.
(a) Calculate the perimeter.
(b) Calculate the area.



3 Write these in order of size.
Start with the smallest.
0.75, $\frac{23}{25}$, 80%, 87.5%

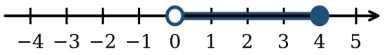
4 A, B and C are points on a circle.
AB is a diameter of the circle.
Angle CAB = 51°.
Work out the size of angle a.
Give a reason for each step of your working.
The diagram is not drawn accurately.



5 Work out
(a) $\frac{4}{5} + \frac{1}{9}$
(b) $\frac{1}{3} - \frac{1}{10}$
Give each answer in its simplest form.

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6 (a) Write down the inequality shown on the number line.
(b) Write down all the integers that satisfy the inequality.



7 The table shows the lengths of some leaves.
(a) Write down the modal class.
(b) Work out an estimate for the mean.

Length, l (cm)	Frequency
$20 < l \leq 30$	4
$30 < l \leq 40$	6
$40 < l \leq 50$	3
$50 < l \leq 60$	12

8 An isosceles trapezium has parallel sides of length 19 m and 9 m.
Each sloping side is 13 m long.
(a) Work out the perpendicular height of the trapezium.
(b) Work out the area of the trapezium.

9 A crate exerts a force of 160 newtons on the floor.
The area in contact with the floor is 8 m^2.
Work out the pressure on the floor.
Give your answer in N/m^2.

10 In a sale, all prices are reduced by 8%.
(Calculator)
A jacket costs £110.40 in the sale.
Work out the original price of the jacket.