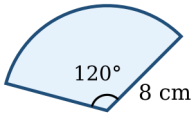
Day 84	B Tier 10-a-day
1 A right-angled triangle has one angle of 65°. Work out the size of the other acute angle.	
2 Work out (a) $12^2 + 5^3$ (b) $\sqrt{169} - 3^2$	
3 A rectangular pond is 8 m by 12 m. There is a path of width 2 m all the way round the outside of the pond. Work out the area of the path.	
4 Solve $\frac{2x + 16}{2} = 5$	
5 Work out $1\frac{1}{3} + 3\frac{5}{6}$ Give your answer as a mixed number.	

Day 84	B Tier 10-a-day

6 3 gardeners take 24 days to clear a field.
All the gardeners work at the same rate.
How long would it take 9 gardeners?

7 The diagram shows a sector of a circle with radius 8 cm and angle 120°. (Calculator)
Work out the length of the arc of the sector.
Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.



8 Show that $(n + 9)^2 - (n - 9)^2$ is a multiple of 36 for any whole number n.

9 A coach holds 16 passengers.
How many coaches are needed for 368 people?

10 The cumulative frequency graph shows the times taken by 40 students to complete a puzzle.
(a) Use the graph to estimate the median.
(b) Work out an estimate for the interquartile range.

