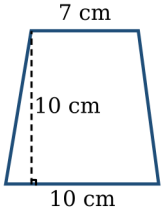
Day 297	A Tier 10-a-day
1 (a) Write 39029 correct to 3 significant figures. (b) Write 4.1084 correct to 1 decimal place.	
2 Here are the ingredients for 10 flapjacks. Sugar: 300 g Water: 750 ml Oats: 250 g (a) Work out how much sugar is needed for 36 flapjacks. (b) Hannah has 2602 ml of water. What is the greatest number of flapjacks she can make?	
3 Chloe is paid £9.60 per hour for a basic week of 35 hours. (Calculator) Overtime is paid at time and a half. Last week Chloe worked 7 hours of overtime. Work out Chloe's total pay for the week.	
4 Solve the simultaneous equations $-2x + 4y = 14$ $3x + 2y = 11$	
5 The diagram shows a trapezium. Work out the area of the trapezium. The diagram is not drawn accurately. 	

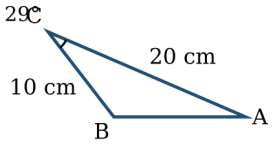
Day 297 **A Tier 10-a-day**

6 Solve $2^{x+10} = 8^x$

7 Maya invests £5000 in a savings account. (Calculator)
The account pays compound interest at a fixed rate each year.
After 2 years there is £5512.50 in the account.
Work out the annual rate of interest.

8 A is the point (7, 6) and B is the point (3, 0).
Find the equation of the perpendicular bisector of AB.

9 Work out the area of triangle ABC. (Calculator)
Give your answer to 3 significant figures.
The diagram is not drawn accurately.



10 The cumulative frequency graph shows information about the age of 80 visitors.
Use the graph to find an estimate for
(a) the median,
(b) the number of visitors with a age greater than 30 years.

