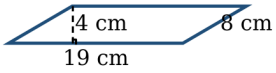
Day 95 **A Tier 10-a-day**

1 Tom invests £500 in an investment bond. (Calculator)
The account pays compound interest at 5% per year.
Work out the total interest earned after 4 years.

2 The diagram shows a parallelogram.
Work out its area.
The diagram is not drawn accurately.



3 The stem and leaf diagram shows the ages of 15 people.
Key: 2 | 0 represents 20 years
(a) Work out the median age.
(b) Work out the interquartile range.

Stem	Leaf
2	0 1 2 4 7
3	0 2 4 5
4	2 4 5 7
5	5 7

4 Make a the subject of $b = 6a + 8$

5 A pizza slice is a sector of a circle has radius 6 cm and area 27π cm^2.
Work out the angle at the centre of the sector.

Day 95	A Tier 10-a-day
6 No tax is paid on the first £12,500 of income. Tax of 15% is paid on the next £28,000. Tax of 45% is paid on all income above £40,500. (Calculator) Leah earns £55,500 a year. Work out the income tax paid.	
7 Here are the first five terms of a quadratic sequence. 2, −1, −2, −1, 2 (a) Find an expression for the nth term. (b) Work out the 8th term.	
8 Femi and Cara each invest £5000 for 3 years. (Calculator) Femi's account pays 10% simple interest per year. Cara's account pays 10% compound interest per year. Work out how much more interest Cara earns than Femi.	
9 The length and width of a rectangular garden are 15.6 m and 7.4 m. Each measurement is correct to 1 decimal place. Work out the upper bound for the area.	
10 The mean of 10 numbers is 53. Another number is added. The mean of the 11 numbers is now 51. Work out the number that was added.	