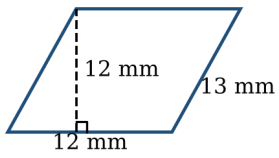
Day 253 **B Tier 10-a-day**

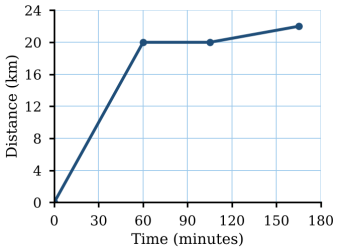
1 Work out the size of one interior angle of a regular polygon with 18 sides.

2 Work out
(a) 7.5 × 0.3
(b) 0.32 × 4

3 The diagram shows a parallelogram.
Work out the area of the parallelogram.
The diagram is not drawn accurately.



4 The graph shows Priya's journey.
(a) How far did Priya travel in the first 60 minutes?
(b) Work out Priya's speed in the last 60 minutes. Give your answer in km/h.



5 Expand and simplify (x − 6)(x + 4)

Day 253	B Tier 10-a-day
6 Two lights flash at 08:00. One light flashes every 8 minutes. The other light flashes every 6 minutes. At what time do both lights next flash together?	
7 £5,000 is invested for 3 years at 6% compound interest per year. (Calculator) Work out the total interest earned.	
8 Here is an iteration formula. $x_{n+1} = 4 + \frac{24}{x_n}$ $x_0 = 6$ (a) Work out x_1 (b) Work out x_2. Give your answer correct to 3 decimal places. (Calculator)	
9 In triangle XYZ, XY = 16 m, YZ = 8 m and angle XYZ = 35°. (Calculator) Work out the area of the triangle. Give your answer correct to 1 decimal place.	
10 In a sale, the price of a sofa is reduced by 10%. (Calculator) Two weeks later it is reduced by a further 10% of the new price. The final price is £648. Work out the original price of the sofa.	