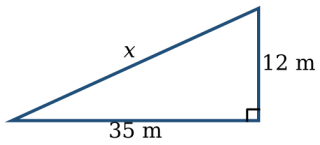
Day 348 **B Tier 10-a-day**

1 (a) Write down the number of lines of symmetry of a regular decagon.
(b) Write down the order of rotational symmetry of a regular decagon.

2 Here are the ages of players in a team.
22, 15, 17, 21, 22, 18, 20, 21
Work out the mean.

3 Write these in order of size.
Start with the smallest.
$\frac{3}{10}$, $\frac{1}{5}$, $\frac{1}{2}$, 25%

4 Find the length of x.
The diagram is not drawn accurately.



5 Work out
(a) $\frac{1}{5} \times \frac{4}{7}$
(b) $\frac{1}{3} \div \frac{3}{5}$
Give each answer in its simplest form.

Day 348 **B Tier 10-a-day**

6 Two fair dice, numbered 1 to 6 and 1 to 8, are rolled.
Work out the probability that the product of the two scores is 12 or more.

7 Solve $x^2 + 8x + 16 = 0$

8 The table shows the times taken by some students to complete a task.
(a) Write down the modal class.
(b) Work out an estimate for the mean.

Time, t (minutes)	Frequency
$0 < t \leq 10$	7
$10 < t \leq 20$	9
$20 < t \leq 30$	6
$30 < t \leq 40$	2
$40 < t \leq 50$	6

9 Solve $7y - 9 \leq 19$

10 In a sale, the price of a sofa is reduced by 10%. (Calculator)
Two weeks later it is reduced by a further 5% of the new price.
The final price is £427.50.
Work out the original price of the sofa.