Day 194 **B Tier 10-a-day**

1 Write down all the common factors of 36 and 48.

2 (a) Write down the number of lines of symmetry of an equilateral triangle.
(b) Write down the order of rotational symmetry of an equilateral triangle.

3 Solve $8x + 11 = 18$
Give your answer as a fraction in its simplest form.

4 A scooter leaves at 1:20 pm.
It travels 150 km at an average speed of 30 km/h.
At what time does it arrive?

5 Complete the table of values for $y = x - 3$

x	−2	−1	0	1	2
y	−5	−4			

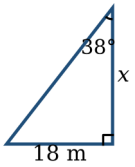
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6 The table shows the numbers of brothers and sisters of some students.
Work out the mean.

Siblings	2	3	4	5	6
Frequency	1	1	1	3	6

7 The population of a town is 12,000. (Calculator)
It increases by 5% each year.
Work out the population after 2 years.
Give your answer to the nearest whole number.

8 Work out the length of x. (Calculator)
Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.



9 A storage tank is $\frac{4}{5}$ full.

3 litres of oil are added.

The storage tank is now $\frac{7}{8}$ full.

Work out the capacity of the storage tank.

10 Show that 5(2n + 5) + 5(2n + 7) is always a multiple of 20, where n is a whole number.