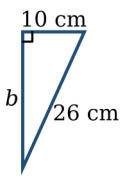
Day 269	B Tier 10-a-day
1 Chloe buys 3 notebooks at 15p each and 4 magazines at 65p each. She pays with a £20 note. Work out how much change she gets.	
2 Simplify fully (a) 9m × 7m (b) 12cd ÷ 3c	
3 Leo and Callum share 156 cards in the ratio 6 : 7. Work out how many Callum gets.	
4 A straight line has equation $y = -4x - 20$ (a) Write down the coordinates of the point where the line crosses the y-axis. (b) Work out the coordinates of the point where the line crosses the x-axis.	
5 Calculate the length of b. The diagram is not drawn accurately. 	

Day 269 **B Tier 10-a-day**

6 Two buses leave a bus station at 08:30.
One bus leaves every 6 minutes.
The other bus leaves every 15 minutes.
At what time do both buses next leave together?

7 The table shows the masses of some parcels.
(a) Write down the modal class.
(b) Work out an estimate for the mean.

Mass, m (kg)	Frequency
$0 < m \leq 20$	11
$20 < m \leq 40$	8
$40 < m \leq 60$	5
$60 < m \leq 80$	9
$80 < m \leq 100$	7

8 A new van costs £30,000. (Calculator)
Its value falls by 6% each year.
Work out its value after 2 years.
Give your answer to the nearest pound.

9 In triangle XYZ, XY = 10 m, YZ = 18 m and angle XYZ = 30°. (Calculator)
Work out the area of the triangle.
Give your answer correct to 1 decimal place.

10 A rectangle has length $(x + 2)$ cm and width $(x - 1)$ cm.
The area of the rectangle is 28 cm^2.
(a) Show that $x^2 + x - 30 = 0$
(b) Hence work out the length of the rectangle.