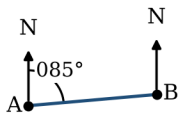
Day 120	A Tier 10-a-day
1 £1 = \$1.6. (a) Change £40 to dollars. (b) Change \$64 to pounds.	
2 Work out $3\frac{1}{3} \times 2\frac{1}{8}$ Give your answer as a mixed number in its simplest form.	
3 The bearing of B from A is 085°. Work out the bearing of A from B. The diagram is not drawn accurately. 	
4 Write these numbers in order of size, starting with the smallest. $\frac{19}{20}$ 0.21 52% 62%	
5 The size of each angle of a quadrilateral is shown as an expression: (x + 30)°, (2x + 10)°, (3x + 55)°, (3x − 41)° Work out the value of x.	

Day 120	A Tier 10-a-day
6 $f(x) = 2x + 5$ $g(x) = x^2 + 1$ Solve $gf(x) = 37$	
7 A bag contains red counters and blue counters in the ratio 1 : 2. 8 more red counters are added to the bag. The ratio of red counters to blue counters is now 3 : 2. How many counters were in the bag at the start?	
8 y is directly proportional to the cube of x. When x = 2, y = 72. (a) Find a formula for y in terms of x. (b) Work out the value of y when x = 5.	
9 Make x the subject of $y = \frac{5x + 4}{x + 6}$	
10 Write $0.1\dot{5}$ as a fraction in its simplest form.	