Day 229	B Tier 10-a-day

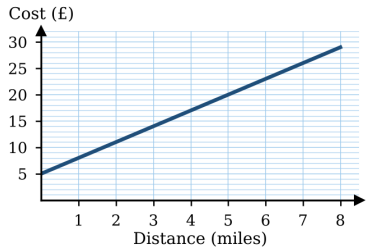
1 A triangle has sides of length 6 m, 4 m and 3 m.
Is the triangle right-angled?
You must show your working.

2 Simplify fully
(a) $(3p^2)^3$
(b) $x^3 \times x^8$

3 WXYZ is a parallelogram.
Angle ZWX = 80°.
(a) Write down the size of angle XYZ.
(b) Work out the size of angle WXY.

4 Write these numbers in order of size.
Start with the smallest number.
5.769, 5.7, 5.68, 5.75

5 A taxi firm charges a fixed amount plus a cost for each mile.
The graph shows the total cost.
(a) Write down the fixed charge.
(b) Work out the cost for each mile.



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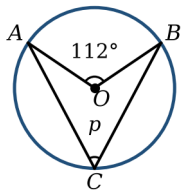
6 The stem and leaf diagram shows 13 values.
(a) Find the median.
(b) Work out the range.

Stem	Leaf
1	0 1 2 4 9
2	0 2 3
3	2 3 5 7 9

Key: 1 | 0 means 10

7 Work out $3\frac{1}{2} \times 1\frac{4}{5}$
Give your answer as a mixed number.

8 A, B and C are points on a circle, centre O.
Angle AOB = 112°.
Work out the size of angle ACB, marked p.
Give a reason for your answer.
The diagram is not drawn accurately.



9 Electricity costs 12p per unit.
There is also a standing charge of £5.
Work out the total bill for 420 units.

10 In a sale, the price of a sofa is reduced by 40%. (Calculator)
Two weeks later it is reduced by a further 50% of the new price.
The final price is £150.
Work out the original price of the sofa.