X

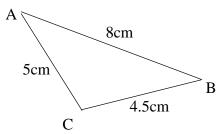
ALBA MATHEMATICS Course Revision Task 3



- 1. Find the equation of the line passing through the points (1, 3) and (-3, 5)
- 2. An antique painting is valued at £2750 in 2015. If it decreases in value by 1.9% per year, what will the expected value be in 2019? Give your answer correct to 2 significant figures.
- 3. Change the subject of the formula below to t.

$$P = \frac{7(t-2)}{4}$$

- 4. In a special offer, a box of cereal weighs 900g. This includes "20% free". Work out the weight of the original box.
- 5. Two lines with equations 3x + y = 4 and ax + 2y = 8 are parallel. Find the value of a.
- 6. Find |u|, the magnitude of the vector $\mathbf{u} = \begin{pmatrix} 2 \\ 5 \\ 4 \end{pmatrix}$, leaving your answer as a surd in its simplest form.
- 7. Calculate the size of angle CAB in the triangle below.



- 8. A sector has radius 6cm and area 84cm². Work out the angle at the centre of the sector.
- 9. Evaluate $2\frac{1}{4} \times \frac{11}{6}$.
- 10. In the cuboid diagram, D is the point (0,3,0) and F is (7,6,4). Write down the coordinates of C.

