

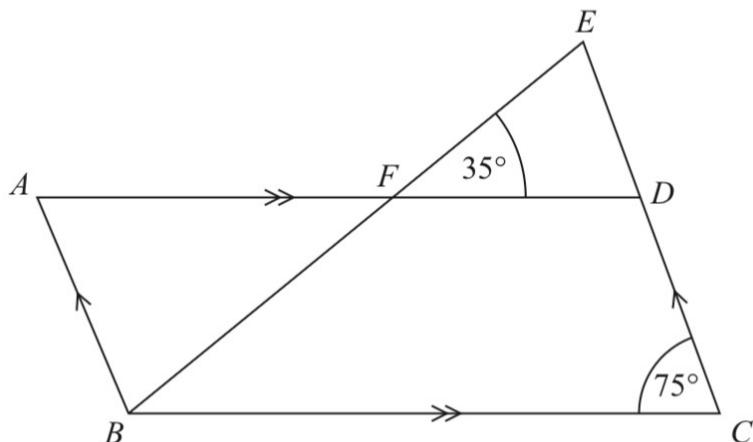
Question 1 (4 Marks)

Solve the simultaneous equations

$$\begin{aligned}5x + 2y &= 11 \\4x + 3y &= 6\end{aligned}$$

$$x = \dots$$

$$y = \dots$$

Question 2 (4 Marks)

$ABCD$ is a parallelogram.

EDC is a straight line.

F is the point on AD so that BFE is a straight line.

Angle $EFD = 35^\circ$

Angle $DCB = 75^\circ$

Show that angle $ABF = 70^\circ$

Give a reason for each stage of your working.

Question 3 (3 Marks)

4 red bricks have a mean weight of 5kg.

5 blue bricks have a mean weight of 9kg.

1 green brick has a weight of 6kg.

Donna says,

“The mean weight of the 10 bricks is less than 7kg.”

Is Donna correct?

You must show how you get your answer.

Question 4 (4 Marks)

Renee buys 5kg of sweets to sell.
She pays £10 for the sweets.

Renee puts all the sweets into bags.
She puts 250g of sweets into each bag.
She sells each bag of sweets for 65p.

Renee sells all the bags of sweets.

Work out her percentage profit.

%