

Please attempt the following questions in preparation for the online session on 7th December 2017.

Q1

Solve the equation $\frac{2x}{3} - \frac{5}{6} = 2x$

Give your answer in its simplest form.

Q2

Solve $11 - 2(1 + 3x) < 39$.

Q3

Solve $19 + x > 15 + 3(x - 2)$.

Q4

- (a) Sketch the lines with equations $y = 2x - 5$ and $x + 2y = -5$.
(b) Find the coordinates of the point of intersection from your graph.

Q5

Two straight lines with equations $3x - y = 2$ and $x + 3y = 19$ intersect at the point Q.

Find, algebraically, the coordinates of Q.

Q6

David bought 3 cans of cola and 2 bottles of orange costing £2.55 in total.

- (a) Write down an equation to illustrate this information.

The following day Charlie bought 2 cans of cola and 3 bottles of orange and was charged £2.70.

- (b) Write down an equation to illustrate this information.

- (c) Calculate the cost of one can of cola and one bottle of orange.