

National 5 Homework

Algebraic Skills

Simultaneous Equations

1. Solve each system of equations below

a) $5x + 3y = 19$

b) $5x - 2y = 16$

c) $6x - 5y = 23$

d) $3x + 4y = 19$

$3x + 2y = 11$

$3x + 4y = 20$

$2x - y = 7$

$2x - 3y = 7$

2. Five square metres of floor tiles and seven square metres of wall tiles cost £127.25

a) Write down an equation to represent this information

b) Ten square metres of floor tiles and three square metres of wall tiles cost £160.

Write down a second equation to represent this information.

c) Calculate the cost of one square metre of floor tiles and one square metre of wall tiles.

3. At the theatre, four balcony tickets and three stall tickets cost £176.25.

a) Write down an equation to represent this information

b) Five balcony tickets and four stall tickets cost £225.50

Write down a second equation to represent this information.

c) Calculate the cost of one balcony ticket and the cost of one stalls ticket.

4. Barstucks coffee sells 2 americanos and 3 cappuccinos for £12.90

a) Write down an equation to represent this information

The cost of 3 americanos and 4 cappuccinos is £18.

b) Write down a second equation to represent this information.

c) Calculate the cost of one americano and the cost of one cappuccino.

5. Find the point of intersection of each pair of lines.

