

Topic 10 – Simultaneous Equations

1. For each pair of simultaneous equations :-

- label each equation **1** and **2**.
- decide which equation to multiply.
- decide what multiplier to use.
- solve for x and y .

(a) $2x + 6y = 36$ (b) $3x + 4y = 25$
 $3x - 2y = -1$ $x - 2y = 5$

(c) $3x + 2y = 11$ (d) $3x + 4y = 22$
 $2x - y = -2$ $8x - 2y = 8$

(e) $3x - 2y = 11$ (f) $x - y = 3$
 $7x + 8y = 51$ $3x + 5y = 1$

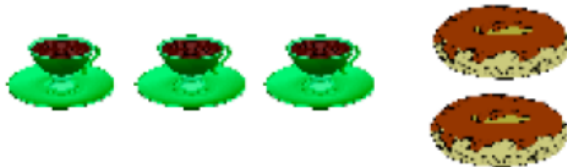
(g) $4y + 9x = -27$ (h) $2y + 3x = -12$
 $8y - 3x = 9$ $y - x = -1$

(i) $12y + 8x = -34$ (j) $4x + 3y = 14$
 $2y - 2x = 6$ $2x - y = -3$

2. Shez buys 2 coffees and 2 donuts for £3.



Jeri pays £4 for 3 coffees and 2 donuts.



Baz bought one coffee **and** one donut.

How much did Baz have to pay ?

3. Sara purchased three identical blouses and four skirts costing £60.

May paid £33 for three blouses and one skirt.

Find the cost of each blouse.