Simultaneous Equations Problems

(a) Maryam buys 5 pears and 2 kiwi fruits for £2.40. At the same grocers, Dave buys 3 pears and 1 kiwi fruit for £2.20. Find the cost of one pear and the cost of one kiwi fruit.

(b) Peter buys 2 pencils and 3 pens for £1.70. Bola buys 4 pencils and 9 pens for £4.60. Find the cost of one pencil and the cost of one pen.

(c) Yusuf visits a café and orders 2 coffees and 3 cakes for £10.35. Maria orders 5 coffees and 2 cakes for £15.70 at the same café. How much would Tia pay for 3 coffees and 2 cakes at the café?

(d) Two numbers have a sum of 57 and a difference of 36. Find the two numbers.

(e) Cards are 65p each and gift wrap sheets are 45p each at a gift shop. Owen buys 21 items from the shop and spends £11.85. How many cards and how many gift wrap sheets did Owen buy?

(f) Terri has a loose change jar that contains only 5p and 10p coins. There are 134 coins in the jar and their total value is £9. Find the number of 5p coins and the number of 10p coins in the jar.

(g) Flour comes in bags of 1.5 kg or 2 kg. A baker has thirty bags of flour and their total weight is 51.5 kg. Find the number of 1.5 kg bags and the number of 2 kg bags the baker has.

(h) A farmer keeps ducks and pigs in the same field. The total number of animals in the field is 54. The difference between the number of pig's feet and the number of duck's feet is 72. Find the number of pigs and the number of ducks in the field.

(a) Pear 50p
 Kiwifruit 70p

(b) Pencil 25p
 Pen 40p

(c) Coffee £2.40
 Cake £1.85

(d) 10.5 and 46.5

(e) 12 cards
 9 gift wrap sheets

(f) 88 5p coins
 46 10p coins

(g) 13 1.5kg bags
 17 2kg bags

(h) 30 pigs
 24 ducks