Lesson 2

GCSE Mathematics
Simultaneous Equations I

2.1 Combination By Subtraction

Solve these pairs of simultaneous equations.
NOTICE : You'll combine the equations by **SUBTRACTION**, not addition.

2.2 Exercise

Marks Available : 24

Question 1

$$\left.\begin{aligned} 4y + 3x &= 17 \\ 2y + 3x &= 13 \end{aligned}\right\}$$

[3 marks]

Question 2

$$\left.\begin{aligned} 4y + 3x &= 15 \\ 2y + 3x &= 9 \end{aligned}\right\}$$

[3 marks]

Question 3

$$\left.\begin{aligned} 5y + 2x &= 25 \\ 2y + 2x &= 16 \end{aligned}\right\}$$

[3 marks]

Question 4

$$\left.\begin{aligned} 6y + 5x &= 44 \\ 2y + 5x &= 28 \end{aligned}\right\}$$

[3 marks]

Question 5

$$\left.\begin{aligned} 9y + 4x &= 55 \\ 5y + 4x &= 43 \end{aligned}\right\}$$

[3 marks]

Question 6

$$\left.\begin{aligned} 7y + 4x &= 23 \\ 2y + 4x &= 8 \end{aligned}\right\}$$

[3 marks]

Question 7

$$\left.\begin{aligned} 16y + 3x &= 16 \\ 12y + 3x &= 15 \end{aligned}\right\}$$

[3 marks]

Question 8

$$\left.\begin{aligned} 12y + 12x &= 10 \\ 2y + 12x &= 5 \end{aligned}\right\}$$

[3 marks]