

Lesson 4

GCSE Mathematics Simultaneous Equations I

4.1 Consolidation Subtraction Problems

Solve these pairs of simultaneous equations.
Combine the equations by **SUBTRACTION**.

4.2 Exercise

Marks Available : 24

Question 1

$$\left. \begin{array}{l} 3y + 4x = 22 \\ 3y + 2x = 8 \end{array} \right\}$$

[3 marks]

Question 2

$$\left. \begin{array}{l} 4y + 3x = 18 \\ 4y + x = 14 \end{array} \right\}$$

[3 marks]

Question 3

$$\left. \begin{array}{l} 2y + 7x = 32 \\ 2y + 3x = 16 \end{array} \right\}$$

[3 marks]

Question 4

$$\left. \begin{array}{l} 3y + 6x = 45 \\ 3y + 3x = 33 \end{array} \right\}$$

[3 marks]

Question 5

$$\left. \begin{array}{l} 2y + 5x = 24 \\ 2y + 2x = 6 \end{array} \right\}$$

[3 marks]

Question 6

$$\left. \begin{array}{l} 5y + 4x = 11 \\ 5y + 2x = 3 \end{array} \right\}$$

[3 marks]

Question 7

$$\left. \begin{array}{l} 4y + 4x = 4 \\ 4y + 3x = 6 \end{array} \right\}$$

[3 marks]

Question 8

$$\left. \begin{array}{l} 5y + 7x = 5 \\ 5y + 3x = 25 \end{array} \right\}$$

[3 marks]

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Teachers may obtain detailed worked solutions to the exercises by email from mhh@shrewsbury.org.uk