## Lesson 5

GCSE Mathematics Simultaneous Equations I

### 5.1 Consolidation Mixed Problems

Solve these pairs of simultaneous equations;

- Subtract the equations when the identical terms have the same sign.
- Add the equations when the identical terms have opposite signs.


### 5.2 Exercise

Marks Available : 24

## Question 1

$$
\left.\begin{array}{l}
3 x+2 y=19 \\
2 x-2 y=6
\end{array}\right\}
$$

## Question 2

$$
\left.\begin{array}{rl}
5 x+2 y & =13 \\
x+2 y & =9
\end{array}\right\}
$$

## Question 3

$$
\left.\begin{array}{rl}
3 x-4 y & =17 \\
x-4 y & =3
\end{array}\right\}
$$

## Question 4

$\left.\begin{array}{l}x+3 y=10 \\ x+y=6\end{array}\right\}$

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

## Question 6

$\left.\begin{array}{l}4 y+7 x=37 \\ 4 y+2 x=2\end{array}\right\}$

## Question 7

$5 y+3 x=18$
$2 y+3 x=0\}$

## Question 8

$8 y+5 x=1$
$8 y+3 x=7\}$

This document is a part of a Mathematics Community Outreach Project initiated by Shrewsbury School
It may be freely duplicated and distributed, unaltered, for non-profit educational use
In October 2020, Shrewsbury School was voted "Independent School of the Year 2020"
© 2021 Number Wonder
Teachers may obtain detailed worked solutions to the exercises by email from mhh@shrewsbury.org.uk

