

# Simultaneous Equations A

## Part 1 Simple Addition Equations

Add the equations together and one of the letters will disappear.

1.  $\textcircled{1} 7X + 2Y = 30$   
 $\textcircled{2} X - 2Y = 2$

2.  $\textcircled{1} 9X + 3Y = 19$   
 $\textcircled{2} 6X - 3Y = 11$

3.  $\textcircled{1} 6X + 3Y = 9$   
 $\textcircled{2} X - 3Y = 5$

4.  $\textcircled{1} 8X + Y = 18$   
 $\textcircled{2} 6X - Y = 10$

5.  $\textcircled{1} 8X + 2Y = 30$   
 $\textcircled{2} 11X - 2Y = 8$

6.  $\textcircled{1} X + 3Y = 12$   
 $\textcircled{2} -X + 3Y = 18$

7.  $\textcircled{1} -6X + 3Y = 35$   
 $\textcircled{2} 6X + 7Y = 5$

8.  $\textcircled{1} 6X + 3Y = 9$   
 $\textcircled{2} -6X - 1Y = 5$

## Part 2 Simple Subtraction Equations

This time you need to subtract one equation from the other.

1.  $\textcircled{1} 7X + 2Y = 30$   
 $\textcircled{2} X + 2Y = 6$

2.  $\textcircled{1} 9X + Y = 18$   
 $\textcircled{2} 6X + Y = 30$

3.  $\textcircled{1} 6X - 2Y = 9$   
 $\textcircled{2} 7X - 2Y = 5$

4.  $\textcircled{1} 6X - 3Y = 19$   
 $\textcircled{2} -2X - 3Y = 3$

## Part 3 Addition and Subtraction Equations

These questions are a mixture of those covered in parts 1 and 2.

1.  $\textcircled{1} 3X + 2Y = 30$   
 $\textcircled{2} 4X - 2Y = 5$

2.  $\textcircled{1} 9X + Y = 19$   
 $\textcircled{2} 6X + Y = 16$

3.  $\textcircled{1} 3X - 3Y = 45$   
 $\textcircled{2} 2X - 3Y = 15$

4.  $\textcircled{1} 3X - 2Y = 2$   
 $\textcircled{2} 2X + 2Y = 3$

5.  $\textcircled{1} 2X + 2Y = 2$   
 $\textcircled{2} 4X - 2Y = 1$

6.  $\textcircled{1} 5X - 3Y = 33$   
 $\textcircled{2} 6X - 3Y = 11$

7.  $\textcircled{1} 11X + 3Y = 5$   
 $\textcircled{2} 7X + 3Y = 13$

8.  $\textcircled{1} 2X + Y = 0.5$   
 $\textcircled{2} 5X - Y = 3$