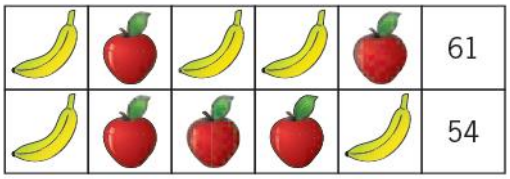
Solving Simultaneous Equations By Elimination - Prove It - Answers

Section 1 - Solve the simultaneous equations below (Grade 5 to 6)			
1.	$x + y = 9$ $\quad x = 5.5$ $x - y = 2$ $\quad y = 3.5$	2.	$x + y = 7$ $\quad x = 3$ $x + 2y = 11$ $\quad y = 4$
3.	$x + 2y = 9$ $\quad x = -1$ $3x + y = 2$ $\quad y = 5$	4.	$4x + y = 5$ $\quad x = 2$ $x - 3y = 11$ $\quad y = -3$
5.	$5x + 3y = 8$ $\quad x = 2.5$ $x + 3y = -2$ $\quad y = -1.5$	6.	$4x + 3y = 0$ $\quad x = -3$ $x + 2y = 5$ $\quad y = 4$

Section 2 - Solve the simultaneous equations below (Grade 6)			
7.	$2x + 3y = 11$ $\quad x = 1$ $3x + 5y = 18$ $\quad y = 3$	8.	$2x + 4y = 17$ $\quad x = 1.5$ $6x - 2y = 2$ $\quad y = 3.5$
9.	$4x + 2y = 24$ $\quad x = 5$ $3x - 3y = 9$ $\quad y = 2$	10.	$2x + 2y = 8$ $\quad x = 5$ $3x - 3y = 18$ $\quad y = -1$
11.	$2x + 3y = 5$ $\quad x = -2$ $7x + 4y = -2$ $\quad y = 3$	12.	$3x + 5y = 15$ $\quad x = -2.5$ $5x + 3y = 1$ $\quad y = 4.5$

Section 3 - form two equations and solve them simultaneously (Grade 6 to 7)	
13.	I have two numbers that have a sum of 16 and a difference of 3. By forming two equations and solving them, find the two numbers. **The two numbers are 9.5 and 6.5**
14.	A shop sells two different types of marble in bags: red and blue. A bag containing three red marbles and two blue marbles weighs 66g. A different bag containing one red marble and four blue marbles weighs 72g. Form and solve two equations to show how much does each type of marble weighs? **Red = 12g; Blue =15g**
15.	Using the table below find the cost of one apple and one banana.  **Apple = 8p; Banana = 15p**