

## Simultaneous Equations

1. Given that  $2p - m = 6$  and  $2p + 4m = 1$ , find the value of  $4p + 3m$

2. Solve the following simultaneous equations :

$$x + y = \frac{3}{2} \quad , \quad x - y = \frac{5}{2}$$

and use your results to find the value of  $2y + x$ .

3. If  $x + 2y = 1$  and  $x - y = 2$ , find the value of  $x + y$ .

4. Given that  $x + y = 7$  and  $3x - y = 5$ , evaluate  $\frac{y}{2} - 3$

5. If  $2x + y = 7$  and  $3x - 2y = 3$ , by how much is  $7x$  greater than  $10$ ?

6. Solve the equations  $y = 3x$  and  $4y - 5x = 14$

## Simultaneous Equations

Answers

1. Given that  $2p - m = 6$  and  $2p + 4m = 1$ , find the value of  $4p + 3m$

7

2. Solve the following simultaneous equations :

$$x + y = \frac{3}{2} \quad , \quad x - y = \frac{5}{2}$$

and use your results to find the value of  $2y + x$ .

1

3. If  $x + 2y = 1$  and  $x - y = 2$ , find the value of  $x + y$ .

$1 \frac{1}{3}$

4. Given that  $x + y = 7$  and  $3x - y = 5$ , evaluate  $\frac{y}{2} - 3$

-1

5. If  $2x + y = 7$  and  $3x - 2y = 3$ , by how much is  $7x$  greater than 10?

7

6. Solve the equations  $y = 3x$  and  $4y - 5x = 14$

2, 6