

Algebra

Task 1

If $a = 5$, $b = 3$ and $c = 1$, solve these equations;

1. $3a + b =$

2. $2b - c =$

3. $a + 3b =$

4. $2b - 2c =$

5. $a - b - c =$

6. $5b + 7c =$

7. $4a \div 2 =$

8. $10c \times 10 =$

9. $6b + 3c + 8a$

Task 2

Simplify these equations;

Example: $a + a + a$ simplified is $3a$. $c + c - f$ simplified is $2c - f$

10. $h + h + h + h =$

11. $3 \times f =$

12. $b + b + b =$

13. $g + g - g =$

14. $d + f + d + f =$

15. $a + b + a + 2b + a$

Task 3

If $X = 9$, what is Y ?

16. $X + Y = 13$

17. $Y + X = 1865$

18. $2X + Y = 200$

19. $2X + 2Y = 25$

20. $3X + 3Y = 50$

Challenge

Have a go at making up some algebraic equations of your own. Choose one of the ways above to do it.