

#### Interleaf 4

1) Simplify fully:

a)  $3x \times 8$       b)  $2x + 6x - x - 3x$       c)  $5x - 7 - 4x + 11$

2) Calculate  $5096 \div 13$

3) If  $a = 4$ ,  $b = -6$  and  $c = -7$ , find the value of the following:

a)  $3b + 5a$       b)  $4a - c$       c)  $b^2$       d)  $a(5 - c)$

4) If I triple a number and add 5 then I get the same result when I take the same number, multiply it by 7 and subtract 10. Form an equation and use it to find the number.

5) What is the difference in temperature between  $-32^{\circ}\text{C}$  and  $-17^{\circ}\text{C}$ ?

6) Calculate  $2 - (4 + 5) \times -3$

#### Answers

1) a)  $24x$    b)  $4x$    c)  $x + 4$    2) 392   3) a) 2   b) -17   c) 36   d) 48   4)  $3x + 5 = 7x - 10$  and  $\frac{15}{4}$    5)  $15^{\circ}\text{C}$    6) 29