



Expanding One and Two Brackets **Home Learning**

1. Expand and simplify:

a. $4(x + 5)$

e. $7(3x + 2y)$

b. $3(x - 7)$

f. $3x(x + 4)$

c. $2(5x + 8)$

g. $4x(3x - 9)$

d. $5(4x - 9)$

h. $6x(2x + 3y - z)$

2. Expand and simplify:

a. $(x + 3)(x + 2)$

e. $(3x - 2)(2x - 7)$

b. $(x + 4)(x - 1)$

f. $(4x - 5y)(x - 3y)$

c. $(x - 3)(x - 5)$

g. $(x + 8)(x - 8)$

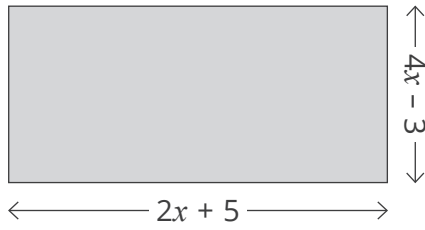
d. $(2x + 5)(x - 6)$

h. $(3x - 7)(3x + 7)$

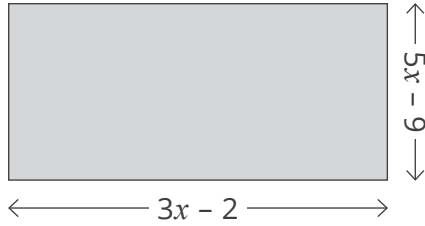


3. Find an expression for the area of each of the following shapes. Write your answers in both non-expanded and expanded form. All lengths are given in centimetres.

a.



b.



Challenge

Find the smallest possible integer value of x for each rectangle above (in question 3).
