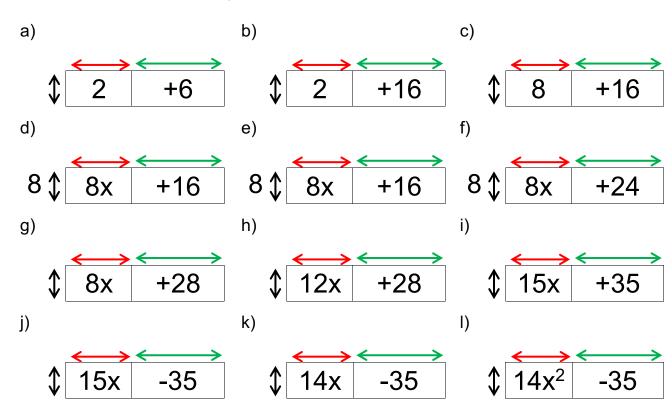
Factorising Single Brackets

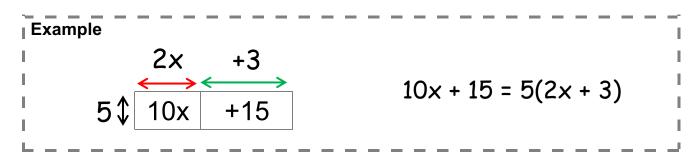
Semi-Abstract Stage

1 In the diagrams below, the figures represent the area of that shape. Work out the length of each arrow.

Make the black arrow as large as possible.



2 For each of the parts in question **1**, write two equivalent expressions to represent the total area of each shape.



a)

b)

c)

d)

e)

f)

g)

h)

i)

j)

k)

I)

3 Peter is completing some questions on factorising but needs your help to complete them.

Complete the grids by writing in what Claire should put in each of the boxes containing a capital letter.

a) Factorise 3x + 6

Х	Α	В
3	3 <i>x</i>	+6

c) Factorise 4x + 12

Х	х	F
Е	4 <i>x</i>	+12

e) Factorise 6x + 18

Х	J	K
I	6 <i>x</i>	+18

g) Factorise 7x - 21

Х	R	Т
Q	S	U

b) Factorise 3x + 12

Х	С	D
3	3 <i>x</i>	+12

d) Factorise 6x + 12

Х	х	Н
G	6 <i>x</i>	+12

f) Factorise 7x + 21

Х	M	0
L	N	P

h) Factorise 7x - 28

Х	W	Y
V	Х	Z

For the following questions, complete the full grid.

i) Factorise 7x - 35

Х	

k) Factorise 10x - 35

Х	2 <i>x</i>	
5	10 <i>x</i>	

m) Factorise 14x - 35

Χ	

o) Factorise 35 - 15x

Χ		
	35	-15x

j) Factorise 5x - 35

Х	

I) Factorise 15x - 35

Х	

n) Factorise 21x - 35

Χ	

p) Factorise 35 - 12x

Χ	