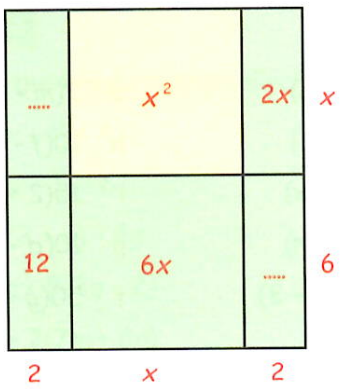
3. Simplify the following expressions :-

a	$x^2 + 6x^2$	b	$a \times 5a$	c	$7k \times k$	d	$20y - 12y$
e	$7n \times 3n$	f	$8m \times 4n$	g	$16d + 14d$	h	$7e \times 9e$
i	$2y \times 50x$	j	$6a - a$	k	$4a \times 3b \times a$	l	$42m \div 6m$
m	$19f + f$	n	$13x + x - 4y$	o	$1 + 2z - z$	p	$a^2 \times 2a + 2$
q	$8x^2 - x^2$	r	$7m - n + m$	s	$10u + 10 - 9u$	t	$50x^2 \div 10x$
u	$5 - 2a + 3$	v	$5g - 2 + 3g$	w	$3v - 2v - v + 1$	x	$7x^2 - 6 + x^2$
y	$9p^2 - 8p^2 + 7p^2 - 8$			z	$63k^2 \div 9k$.		

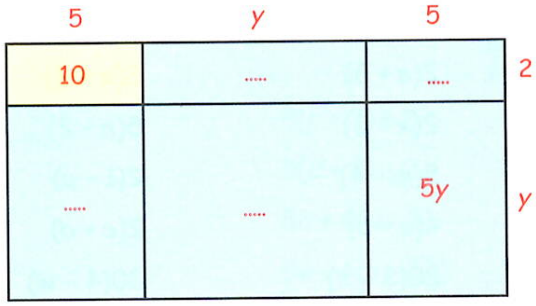
4. For each rectangular design, find an expression for the area of each small rectangle then find the **total area** of the design in its **simplest form**. (Ignore units !)

a



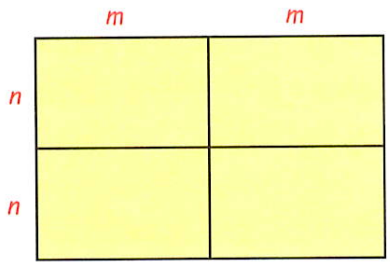
Area = (6 x 2) + (6 x x) + (6 x 2) + (2 x x) + ... + ...

b

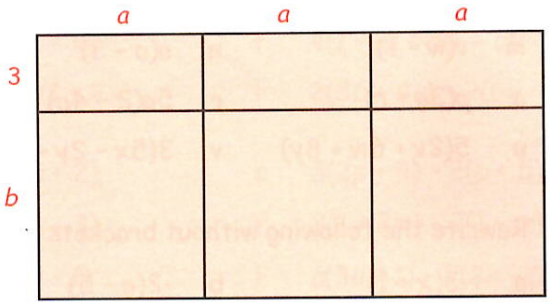


Area = ... + ... + ... + ...

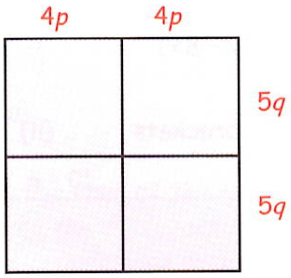
c



d



e



f