

## 2. ALGEBRA TEST

1. Simplify each of the following expressions

(a)  $y + y + y$

.....

(b)  $2m + 5m$

.....

(c)  $5k - 3k$

.....

(d)  $8p + 5p - 12p$

.....

(e)  $6b - 12b + 20b$

.....

2. Simplify the following

(a)  $m \times m$  .....

(c)  $2p \times 3p$  .....

(b)  $a \times a \times a$  .....

(d)  $5ab \times 2a$  .....

3. Expand the following

(a)  $3(a + 2)$

.....

(b)  $4(p - 3)$

.....

(c)  $7(3 + 2p)$

.....

(d)  $a(a - 3)$

.....

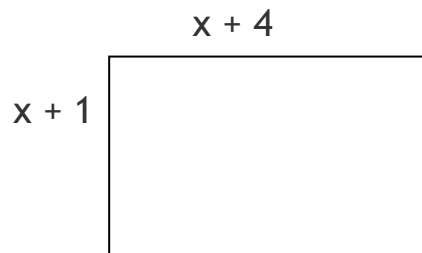
4. Factorise the following

(a)  $5a + 10$   
.....

(b)  $18m - 27$   
.....

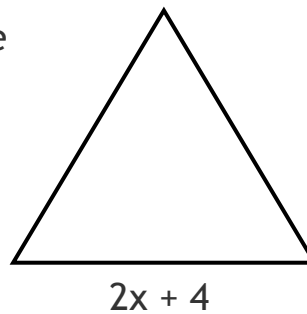
5. Find an expression for the **total perimeter** of these shapes

(a) A rectangle



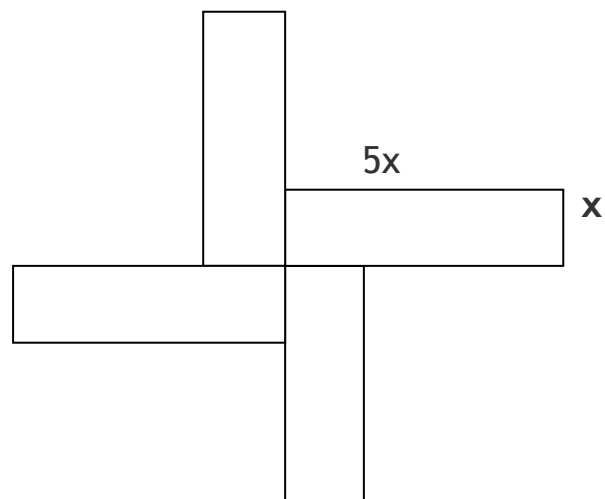
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(b) This **equilateral** triangle



.....

(c) Find an expression for the **total perimeter** of this shape. All the rectangles are the **same size**. Each has **length  $5x$**  and **width  $x$** .



PERIMETER = .....