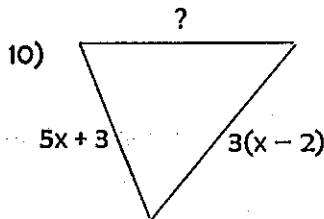
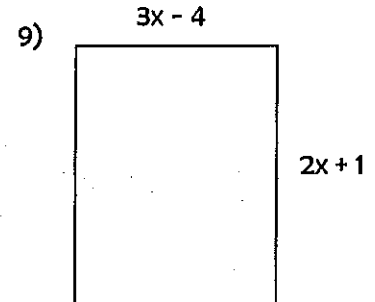
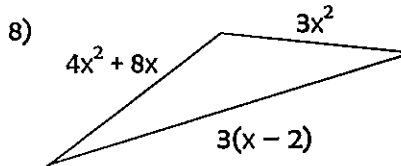
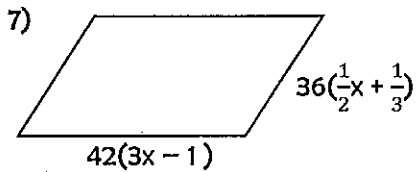
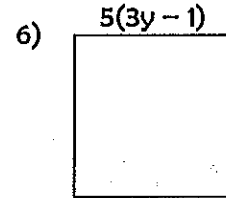
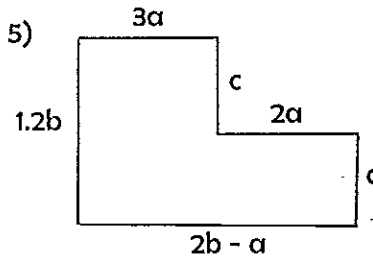
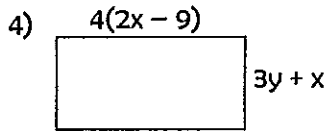
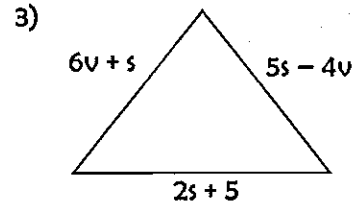
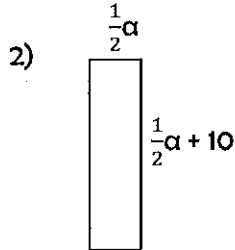
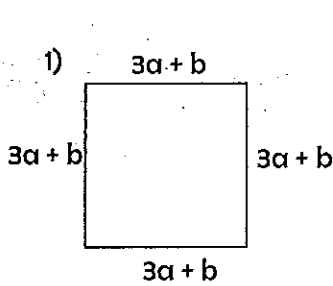


Perimeter and Algebra??!

Perimeter is usually associated with geometry (shapes), but it can also be found using algebra (numbers and variables). The perimeter of *any* polygon can be found using algebra – even if we don't know exactly what the sides equal! For each problem below, find the perimeter of the polygon as an algebraic expression in simplest form.



The perimeter of the triangle above is $10x + 8$. What does the missing side measure?

11) A square has a perimeter of $24x - 16$. What is the length of each side?

12) Create your own problem: Draw any shape (it can be a rectangle, triangle, or irregular similar to problem number 5). Label the sides with an algebraic expression. Each expression must have at least 2 terms. Find the perimeter of your shape.