

Translate into an algebraic expression.

- (A) Six more than a number.  
(B) The quotient of a number and eight.  
(C) Four less than twice a number.  
(D) The length of a rectangle is one less than twice the width. Write an expression for the perimeter of the rectangle. Use the formula.

Evaluate: (E)  $\frac{3(5-3)^2}{4}$

(F)  $2^2[4 + 3(2(4) - 1)^2]$

Simplify: If  $a=2$   $c=4$   $b=3$   $d=5$  (G)  $\frac{abc}{2} \cdot \frac{cd}{a}$  (H)  $\frac{bc + ac}{ad}$

Use the distributive property to rewrite and simplify each:  $4(9-3)$   $3(78)$   $6[8\frac{1}{3}]$

Write an expression: Four times the sum of  $x$  and  $y$  decreased by two times the  $x$  and  $y$ .