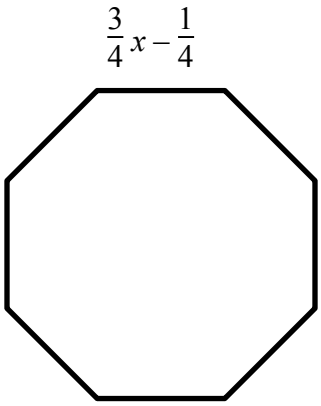
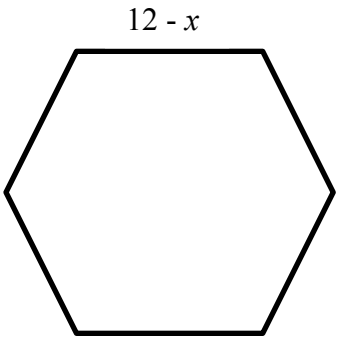
Name _____ Date_____

A regular octagon has a side length of $\frac{3}{4}x - \frac{1}{4}$. A regular hexagon has a side length of $12 - x$.





The difference between the *perimeters* of the two shapes is represented by the expression $8\left(\frac{3}{4}x - \frac{1}{4}\right) - 6(12 - x)$.

Write an expression equivalent to $8\left(\frac{3}{4}x - \frac{1}{4}\right) - 6(12 - x)$ using the fewest possible terms. Show all work neatly and clearly.

Name _____ Date_____

Which expression(s) is/are equivalent to $8 – 2(5x – 3)$. Explain or show work to justify your decision.

Expression	Equivalent? (yes or no)	Explain
$6(5x – 3)$		
$8 – 10x + 6$		
$8 – (10x – 6)$		
$8 – 10x – 6$		
$–10x + 14$		