

Expressions Quiz Review: I can add, subtract, multiply and factor linear expressions.

Simplify the following problems:

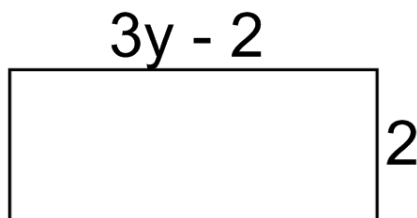
- 1) $4x - 5y + 12x + 3x$
- 2) $13x + \frac{2}{3}y + 11 + \frac{1}{4}y + 9$
- 3) $13x + 2 - 5y + 6y + 8 - x$
- 4) $x + \frac{2}{3}x + 6 + \frac{3}{5}x$
- 5) $2(5x - 1) + 3x$
- 6) $6x + 3(2x + 7)$
- 7) $7 - (3x - 4)$
- 8) $5(-2x + 4) + 3x - 2$
- 9) $(6x - 5) + (-11x + 6)$
- 10) $\frac{3}{4}(8x - 12) - \frac{1}{2}(2x - 4)$
- 11) $(-2x + 7) - (3x + 22)$

Factor out a GCF for the following problems:

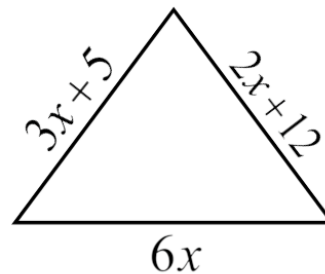
- 12) $3x - 12$
- 13) $8x + 12y - 6$
- 14) $-6x + 15$
- 15) 4 friends went to the movies. Their bill was $4x + 24$, where x is the price of a movie ticket and \$24 was price for popcorn and drinks. If the friends split the bill evenly amongst the 4 of them, what expression represents the amount each friend had to pay?
- 16) The area of a rectangle is $4x + 12$ and the length is $x + 3$. What is the width of the rectangle?
- 17) If the area of a rectangle is $6x + 4$ and the width is 2, what is the length?

Solve the following problems:

18) Find the Area



19) Find the Perimeter



20) Find the Area and the Perimeter

