## 0.5 - Combining Like Terms

- 1. A triangle has side lengths of (7s + 4t) centimeters, (9s-7u) centimeters, and (10u-9t) centimeters. Which expression represents the perimeter, in centimeters, of the triangle?
- A. 16s 5t + 3u
- B. 14t + 16s 16u
- C. 26su 12tu
- D. 11st + 2su + tu

- 2. A triangle has side lengths of (2s+3) centimeters, (10s+4) centimeters, and (10t-5) centimeters. Which expression represents the perimeter, in centimeters, of the triangle?
- A. 5t + 5s + 14
- B. 2 + 10t + 12s
- C. 7 + 12s + 5t
- D. 5t + 19s

- 3. Which expression is equivalent to 2m + m 3?
- A. 2m-2
- B. -2m
- C. 3m 3
- D. 0m

- Name:
- 4. The width of a rectangle measures (7u+3)centimeters, and its length measures (9u+6)centimeters. Which expression represents the perimeter, in centimeters, of the rectangle?
- A. 9 + 16u
- B. 20u + 30
- C. 10u + 15
- D. 32u + 18

- 5. Which expression is equivalent to n 3n + 6n?
- A. 4n
- B. 1 + 3n C. -2n D. n + 3

**6.** Combine like terms.

$$\left. egin{aligned} x - 3y^3 + 3x^3 - 5x - x^3 - x - 2x^3 \ \hline -5x - 3y^3 \ \end{matrix} 
ight|$$

7. Combine like terms.

$$\left[2-4 y^3+5 y^3+y^3+2+5 x^3+2
ight]$$
  $\left[6+2 y^3+5 x^3
ight]$ 

**8.** Combine like terms.

$$6+2+2x+6y+2y+1+2x \ \hline egin{pmatrix} 9+4x+8y \end{bmatrix}$$

9. Combine like terms.

10. Combine like terms.