## Algebra 1 ECA Remediation

# Quiz 2.1

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## Solve each equation.

1) 
$$5m - 16 = 1 + 4(1 + 3m)$$

- A)  $\{-4\}$
- B) {-14}
- C) {-5} D) {-3}

3) 
$$6n + 7n = 2(7n - 4) - (-8 - 3n)$$

- A)  $\{-3\}$
- B) {7}
- C)  $\{0\}$
- D) { All real numbers. }

#### Solve each proportion.

$$5) \ \ x - 2 = \frac{5x + 2}{2}$$

- A) {5}
- B) {8.7}
- C) {9}
- D)  $\{-2\}$

### Solve each equation.

6) 
$$26.63 + 5.4r = -2.8(3.7 - 5.4r) + 3.98r$$

- A) {4.152}
- B) {-11.2}
- C) {2.7}
- D) {-7.9}

- A)  $\{-10\}$
- B)  $\{-2\}$
- C)  $\{-3\}$
- D) {4}

4) 
$$2(7+4x) = 2x - 8(x+7)$$

- A) {-6} B) {-3} C) {8} D) {-5}

Find the mistake that was made when solving each equation. Explain why the work shown is incorrect. Solve each equation correctly.

7) 
$$-3(2-6x) = 84$$
  
 $-6-18x = 84$   
 $-18x = 90$   
 $x = -5$ 

- A) {No mistakes, -5}
- B) {Divided incorrectly, 0.5}
- C) { Added to both sides incorrectly,  $\frac{13}{3}$  }
- D) {Distributed incorrectly, 5}

8) 
$$-143 = 5(5n - 1) - 2n$$
  
 $-143 = 25n - 5 - 2n$   
 $-143 = 23n - 5$   
 $-148 = 23n$   
 $-6.435 = n$ 

- A) {Distributed incorrectly, -5}
- B) {Combined like terms incorrectly, -6}
- C) {Subtracted incorrectly, -6}
- D) { Divided incorrectlly, -5 }