

Quiz 2.2

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Solve each equation.

1) $-5p + 27 = -8p - 3(3p - 5)$

- A) $\{-1\}$ B) $\{-14\}$
C) $\{16\}$ D) $\{-13\}$

2) $-17 + 4k = -7(8 + 5k)$

- A) $\{13\}$
B) $\{-12\}$
C) $\{\text{All real numbers.}\}$
D) $\{-1\}$

3) $-4(3n - 1) = -2(-8 + 7n)$

- A) $\{6\}$
B) $\{-7\}$
C) $\{\text{All real numbers.}\}$
D) $\{8\}$

4) $1 + 3x + 2 = -6(8 + 6x) + 6(1 - x)$

- A) $\{-1\}$ B) $\{-5\}$
C) $\{-2\}$ D) $\{5\}$

Solve each proportion.

5) $m - 5 = \frac{-m - 31}{2}$

- A) $\{7.3\}$ B) $\{6.9\}$
C) $\{5.215\}$ D) $\{-7\}$

Solve each equation.

6) $-11.11 - 0.2r = 5.1(3.7 + 2.9r)$

- A) $\{-1.5\}$ B) $\{0.6\}$
C) $\{9.2\}$ D) $\{-2\}$

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

7) $3(5n + 3) = 84$
 $15n + 3 = 84$
 $15n = 81$
 $n = \frac{27}{5}$

- A) {Distributed incorrectly, 5}
- B) {Subtracted incorrectly, -12 }
- C) {Divided incorrectly, 5}
- D) {Distributed incorrectly, 7}

8) $-66 = -2(5x + 3)$
 $-66 = -10x - 6$
 $-72 = -10x$
 $7.2 = x$

- A) {Distributed incorrectly, 6}
- B) {Added incorrectly, 7}
- C) {Divided incorrectly, -7 }
- D) {Added incorrectly, 6}