

**Homework 2.1 Solving Equations Using Addition and Subtraction:**

1. Write three equivalent equations for  $n + 14 = 27$ .
2. Solve  $g + 94 = 75$  two ways.

**Directions:** Solve each equation. Then check your solution.

3.  $t - 4 = -7$       4.  $p + 19 = 6$       5.  $15 + a = 71$       6.  $n - 0.78 = 2.65$       7.  $\frac{2}{3} + w = \frac{3}{2}$

**Directions:** Write an equation for each problem, then find the number.

8. Twenty one subtracted from a number is negative eight.
9. A number increased by thirty seven is ninety one.
10. Six plus a number is one hundred and twenty five.

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**Homework 2.2 Solving Equations using Multiplication and Division:**

1. (\*) Casey and Juanita solved the equation  $8n = -72$ . Who is correct and where is the error?

Casey $8n = -72$ $\frac{8n}{8} = \frac{-72}{8}$ $n = -9$	Juanita $8n = -72$ $(8)8n = (8)(-72)$ $n = -576$
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**Directions:** For each of the following, solve and check your answer!

2.  $-2g = -84$                       3. (\*)  $\frac{x}{36} = \frac{4}{9}$                       4.  $\frac{t}{7} = -5$                       5.  $\frac{4}{5}k = \frac{8}{9}$
6. (\*) If  $4m = 10$ , what is  $12m$ ?
7. (\*) If  $15b = 55$ , what is  $3b$ ?

**Directions:** Write an equation for each problem, then find the number.

8. Five times number is one hundred and twenty.
9. Six divided by a number is 2.
10. (\*) Two fifths of a number is negative twenty four.

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