Unit 6: Linear Equations   Name: _____

6.1 Solving Equations by Using Inverse Operations – Worksheet

1. Solve each equation and verify the solution.
   a) $-27.25 = c + 2.25$ b) $3x = 15.6$

   c) $-76.05 = -9b$ d) $\dfrac{w}{4.5} = -3.5$

2. Solve each equation and verify the solution.
   a) $\dfrac{d}{7} - 3 = 11$ b) $-16 = \dfrac{p}{6} + 2$ c) $3.1 - 0.2a = 1.5$

   d) $\dfrac{-4r}{5} = 1.28$ e) $8 - \dfrac{3}{4}c = 5$

3. A taxicab charges $2.50, plus $1.78 per kilometre.
How long is a trip that costs $21.19?

4. Solve each equation and verify the solution.

   a) $-2(2-x)=-6$

   b) $3.2(v-3)=12.8$

   c) $6\left(m-\dfrac{1}{9}\right)=\dfrac{55}{12}$

   d) $-\dfrac{16}{9}=\dfrac{2}{3}\left(\dfrac{5}{2}-g\right)$