Math 6 Unit 10 worksheet: One-step equations

Name _____ Date _____ Period _____

1. Solve each equation. Check your answer in the original equation.

(a) $x + 45 = 102$ (b) $m - 37 = 64$ (c) $29 + y = 71$ (d) $150 = k - 75$ (e) $120 - w = 48$

(f) $93 = 58 + c$

2. Solve each equation. Check your answer in the original equation.

(a) $p + 3.8 = 10.25$ (b) $t - 0.65 = 4.7$ (c) $\frac{5}{6} + z = 2\frac{1}{4}$ (d) $g - 3\frac{2}{5} = 1\frac{7}{10}$

(e) $12.4 - r = 7.85$ (f) $4\frac{1}{3} = h + 2\frac{3}{4}$

3. Solve each equation. Check your answer in the original equation.

(a) $6n = 138$ (b) $\frac{a}{8} = 17$ (c) $15b = 40$ (d) $14 = 4d$ (e) $\frac{3}{5}x = 27$

(f) $\frac{3}{8}y = \frac{9}{10}$ (g) $0.7c = 9.1$ (h) $3.2m = 12$

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4. At a bookstore, the paperback of a novel costs 4.85 dollars less than the hardcover. The paperback costs 12.99 dollars. Let h be the price of the hardcover in dollars. Write an equation, solve it, and check your answer in the story.

5. Sofia fills a photo album with prints from a class trip. Each page holds 5 photos, and every page used is full. Sofia put 50 photos in the album in all. Write an equation and solve it to find how many pages Sofia filled.

6. Amara solved $x - 2.4 = 6$ and wrote $x = 6 - 2.4 = 3.6$.

(a) Put her answer into the original equation. Does it work?

(b) Explain her mistake, then solve the equation correctly.

7. In each equation the letter p stands for a number you must find. Find p so that the equation has the given solution.

(a) $px = 18$ has the solution $x = 2.4$.

(b) $x - p = 3\frac{1}{2}$ has the solution $x = 5\frac{1}{4}$.

(c) $p - x = 2.75$ has the solution $x = 4.5$.

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