

Algebra Review #3 SHOW HOW YOU SOLVED EACH PROBLEM

1. Solve each proportion

a. $\frac{100}{14} = \frac{x}{56}$

b. $\frac{7}{x} = \frac{18}{21}$

c. $\frac{x}{9} = \frac{17}{81}$

2. Simplify each expression

$-4(50)$	$t - 10s$ if $t = -55$ and $s = -3$
$(5)^2 \cdot (9 - 17) \div (-10)^2$	

3. Write an expression for each of the following.

Three times as many absences (a) plus 5	5 tablespoons every day (d) plus two
7 times the sum of bottles (b) added to one	\$20 less than \$10 for each (x)

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4. Simplify by using the distributive property and combining like terms:

$8(2c + 5)$	$-2(5c - 3)$
$10 + 2(4y + 3)$	$3(2r + 5) - 8(2 - r)$

5. Solve the equation:

$$6x + 10x = 80$$

6. Solve each equation:

$x + 15 = -2$	$-5x = 60$
$-20 = 4x$	$\frac{x}{3} = -11$

7. Simplify the radical expression:

$$\sqrt{30}$$

9. Simplify the radical expression:

$$\sqrt{18}$$

8. Simplify the radical expression:

$$\sqrt{280}$$

10. Simplify the radical expression:

$$\sqrt{125}$$