

Section 8.3 Extra Practice

1. Check each of the following.

a) $3(x - 5) = 18$, if $x = 4$

Check:

Left Side	Right Side
$3(x - 5)$	18
$= 3(\text{_____} - 5)$	
$= 3(\text{_____})$	
$= \text{_____}$	

Left side _____ right side.
(equals or does not equal)

b) $0.2(x + 3) = 1.4$, if $x = 11$

Check:

Left Side	Right Side

Left side _____ right side.
(equals or does not equal)

2. Circle the error. Then, solve the equation correctly.

$$\begin{aligned} 0.4(x + 2.2) &= 5.4 \\ 0.4x + 2.2 &= 5.4 \\ 0.4x &= 3.2 \\ x &= 8 \end{aligned}$$

3. Solve each of the following.

a) $2(x - 4) = 12$

$$\text{_____} - \text{_____} = 12$$

$$2x - \text{_____} + \text{_____} = 12 + \text{_____}$$

$$\frac{2x}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

$$x = \text{_____}$$

b) $3(m + 0.5) = -2.1$



Name: _____

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Multiply both sides by 4.

c) $\frac{x+14}{4} = \frac{5}{2}$

d) $\frac{x-2}{3} = \frac{-7}{18}$

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(continued)

4. The perimeter of a square is 49.2 cm. The side length of the square is represented by the expression $(x + 4.1)$ cm. What is the value of x ?

Perimeter = number of sides \times length of each side

