

Part 1: Write an equation to represent the situation and solve. Show your steps.

- 1) Cecile packages snack mix at a health food store. She uses  $\frac{1}{3}$  of her supply of sunflower seeds to make a salted snack mix and  $\frac{2}{9}$  of her supply to make an unsalted snack mix. If Cecile uses 10 pounds of sunflower seeds, how many pounds of seeds are in her supply?

- 2) A music shop charges deposit of \$20, plus a monthly rate of \$30 to rent an instrument. For how many months did Avi rent an instrument if he spent a total of \$80?

3) Page 115 #3

4) Page 115 #6

Part 2: Solve the equation. Show your steps.

5)  $-0.2(x - 20) = 44 - x$

10)  $3x - 2.7 = 2x + 2.7 + x$

6)  $\frac{1}{5}x + \frac{3}{10}x = 9 - 6.7x$

11)  $9x + 4.5 - 2x = 2.3 + 7x + 2.2$

7) Page 115 #5

8) Page 115 #2

9)  $\frac{3}{4}x + x - 5 = 10 + 2x$

12)  $0.2x - 7 = \frac{3}{4} + 2x - 25.75$

Part 3: Match each equation to its number of solutions.

13) \_\_\_\_\_  $-2(3x - 1) = -6x - 1$

A. One Solution

14) \_\_\_\_\_  $2(3x - 1) = 6x - 2$

B. No Solution

15) \_\_\_\_\_  $2(3x - 1) = -6x - 2$

C. Infinitely Many Solutions