

Name: _____



PRACTICE



TUTORIAL

2-1 Additional Practice

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Leveled Practice In 1 and 2, complete the steps to solve for x .

1. $\frac{4}{7}x + \frac{5}{14}x = 39$

$$\frac{\boxed{}}{14}x = 39$$

$$\frac{\boxed{}}{\boxed{}} \left(\frac{\boxed{}}{14}x \right) = \frac{\boxed{}}{\boxed{}} (39)$$

$$x = \boxed{}$$

2. $-12.6x - 4.9x = -154$

$$\boxed{}x = -154$$

$$x = \frac{-154}{\boxed{}}$$

$$x = \boxed{}$$

In 3–6, solve for x .

3. $2.4x - 9.1x + 12.5x = -39.44$

4. $-\frac{5}{6}x - \frac{1}{9}x = -102$

5. $\frac{5}{11}x + \frac{2}{3}x - \frac{1}{6}x = -189$

6. $8.7x - 1.9x = 116.96$

7. **Make Sense and Persevere** Wayne bought blueberries. He uses $\frac{3}{8}$ of the blueberries to make blueberry bread, $\frac{1}{6}$ of the blueberries to make pancakes, and $\frac{5}{12}$ of the blueberries to make jam. If Wayne uses 69 ounces of the blueberries he bought, how many ounces of blueberries did he buy? © MP.1

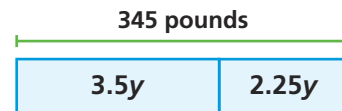
8. **Make Sense and Persevere** Charlotte buys a ticket to go to a baseball game. The total includes a charge of 7% of the original price for extra fees. If Charlotte pays a total of \$44.94, how much was the original price of the ticket? © MP.1



9. Manuel bought 9 pounds of apples. He has eaten $\frac{3}{4}$ of a pound so far and has \$15 worth of apples left. Write and solve an equation to find the cost of the apples per pound to the nearest dollar. How much did the apples cost per pound?

10. **Higher Order Thinking** Solve $\frac{3}{4}h - 12 = 8\frac{5}{8}$.

11. Timothy bought concrete mix for several projects. He used 3.5 bags of concrete mix for a new set of stairs and 2.25 bags of concrete mix for a garden wall. Timothy mixed 345 pounds of concrete in all.



- a. **Model with Math** Write an equation that can be represented by the bar diagram. © MP.4

- b. Solve for y . How many pounds of concrete does each bag make?

12. The community center has a pottery class each month. Each student pays \$15 for the class and \$27 for materials. This month the pottery class brought in a total of \$714. How many students are in the class this month?

© Assessment Practice

13. **Construct Arguments** Your friend incorrectly says the solution to the equation $11.2y - 7.4y = 141.36$ is $y = 7.6$. What error did your friend make? © MP.3
- Ⓐ Divided incorrectly
 - Ⓑ Added $7.4y + 11.2y$
 - Ⓒ Solved for $\frac{1}{y}$ instead of y
 - Ⓓ Subtracted like terms incorrectly

14. Brian scored $\frac{1}{10}$ of the points for his basketball team in the state championship game. Joe scored $\frac{1}{4}$ of the points. Together they scored 21 points. Write an equation to represent the situation. What was the total number of points the team scored?

