

Name:

### Unit 5 Day 1 Class Work

Please **solve** and **check** the following problems in your class notes.

1)  $5y + 3 = 18$

2)  $3y - 4 = 14$

3)  $11 = 2x - 1$

4)  $16 = 3y - 8$

5) You borrow \$350 to buy a bicycle. You agree to pay \$100 the first week, and then \$25 each week until the balance is paid off. To find how many weeks  $w$  it will take you to pay for the bicycle, solve  $100 + 25w = 350$ .

6)  $\frac{t}{4} - 1 = 6$

7)  $15 = 13 + \frac{b}{3}$

8)  $-9 + \frac{y}{7} = -12$

9) Thomas, Ardell, and Nichole bake muffins, which they shared equally. Nichole ate a muffin on the way home. She then had 14 muffins left. Solve the equation  $\frac{m}{3} - 1 = 14$  to find the number of muffins that Thomas, Ardell, and Nichole baked.

10)  $\frac{b}{3} + 3 = 11$

11)  $15x + 3 = 48$

12)  $\frac{b}{-2} + 9 = 5$

13) Carmela wants to buy a digital camera for \$249. She has \$24 and is saving \$15 each week. Solve the equation  $15w + 24 = 249$  to find how many weeks  $w$  it will take Carmela to save enough to buy the digital camera.

14)  $-3 = 4n + 9$

15)  $\frac{n}{6} + 2 = -8$

16)  $-28 = 5c + 7$

17) A building contractor buys 525 metal bars. Because he is buying more than 500 bars, the wholesaler gives him a discount of \$420. The total price is \$3,780. Solve the equation  $525b - 40 = 3,780$  to find the cost of each metal bar.

18)  $\frac{y}{5} - 6 = 5$

19)  $2 = 9g + 11$

20)  $6 = 7 + \frac{x}{2}$

21)  $6 = 3 + \frac{k}{5}$

22)  $5v - 12 = 8$

23)  $1 = 7 + -3b$

24)  $4a - 1 = 27$