1$^{\text{st}}$ Semester Review Worksheet A

Name:_____   Period:_____

Directions: Solve each equation. **Show all work.**

1. $3a - 8 = 19$ 2. $-35 = 4b - 8$

3. $7c - 8 = 3c + 18$ 4. $3(d + 5) = -20$

5. $3(d + 7) = 7d - 5$ 6. $2(e + 5) + 6 = 12 - 8(e - 9)$

7. $\frac{3}{2}f + 7 = 91$

8. $-46 = \frac{2}{3}g - 11$

9. $\frac{5}{2}h + 7 = \frac{4}{3}h - 7$

10. $-\frac{3}{4}(j - 1) = \frac{5}{8}j - 4$

11. $\frac{4}{3}k - 7 = \frac{1}{2}(k + 2)$

12. $\frac{2}{5}\left(\frac{7}{4}m + 4\right) = \frac{3}{4}\left(m - \frac{5}{2}\right)$

Directions: Solve each word problem by using all 4 steps. **Show all work.**

13. Rhonda and Jenny, longtime friends, met for lunch last Saturday. Their bill was $37.76. Jenny's lunch was $1.08 more than Rhonda's lunch. How much did each of them spend on lunch?

14. Henry has 7 more $1 bills than he has $5 bills. He has $37. How many of each bill does he have?

15. Mark and Tina went on a dinner date. Mark's dinner was $5.84 more than Tina's dinner. Being a gentleman, Mark paid for both dinners and with a $7 tip, the date cost him $45.16. How much was each person's dinner. But the real questions is, will Tina accept another date with Mark when he calls in a few days?

16. Valerie's basketball team played in a 3-game tournament earlier this month. She scored 53 points in the tournament. In the first game, she scored 7 more points in than the second game. For the third game, she scored twice as many points minus 2 than the second game. How many points did she score in each game?

17. Larry, Curly, and Mo went grocery shopping. Larry bought $18.96 more than Curly, Curly bought $15.90 less than Curly. They spent $171.09 together. How much did each of them spend on groceries?

18. Barry, Gens, and Danny were great friends in high school. They recently met for lunch after not seeing each other for 8 years. Barry's lunch was $2.64 more than Gens' lunch. Danny's lunch was $2.76 more than Barry's lunch. Together, their lunch bill (without the tip) was $69.30. How much was each person's lunch?