

Equations REVIEW SHEET

Name _____

Evaluate each expression.

1. $3 + 2 \bullet 3 + 5$

2. $4(11 + 7) - 9 \bullet 8$

3. $15 \div 3 \bullet 5 - 4^2$

4. $(5 - 1)^3 + (11 - 2)^2 + (7 - 4)^3$

Solve.

5. $4x + 8 = x - 7$

6. $3x + 4 = 10$

7. $\frac{x}{6} - 5 = -8$

8. $9 = -3 + x + 2x$

9. $6x + 9 = -4x + 29$

10. $3(k + 5) = -18$

11. $16z - 15 = 13z$

12. $-5(4x - 2) = -2(3 + 6x)$

13. $2(3x - 6) = x + 9$

14. $\frac{7}{3}(\frac{1}{2}x - \frac{10}{3}) = -\frac{35}{3} - \frac{1}{2}x$

15. $-\frac{7}{2}x - \frac{5}{2} + 2x = -\frac{17}{5}$

16. $2(5 + 3x) = 3(5 + 3x) - 3x$

17. $4(6x + 2) + 1 = 3(8x + 3)$

Write an equation and solve.

18. After paying 8 dollars for the book, Sean has 57 dollars left. How much money did he have before buying the book?

19. At a restaurant, Mike and his three friends decided to divide the bill evenly. If each person paid \$13 then what was the total bill?

20. Suppose a video store charges nonmembers \$4 to rent each video. A store membership costs \$21 and members pay only \$2.50 to rent each video. For what number of videos is the cost the same?

21. The sum of three consecutive even numbers is 108. What is the largest number?