

Algebra I Worksheet #2 Unit 1 _____

Simplify each algebraic expression.

1. $x + x + x + x =$ _____

2. $y + y + y + y + y =$ _____

3. $x + x + y + y + y =$ _____

4. $x + x + x + x + y + y =$ _____

5. $a + a + b + c + c + c =$ _____

6. $ab + ab + ab + ab =$ _____

7. $3x + 4x =$ _____

8. $6y + 7y =$ _____

9. $16d + 9d =$ _____

10. $4m + m =$ _____

11. $8x - 5x =$ _____

12. $7y - 9y =$ _____

13. $14k - 3k =$ _____

14. $7n - n =$ _____

15. $3xy + 7xy =$ _____

16. $8ab - 3ab =$ _____

Find the value of each expression.

17. $5 + 2 \cdot 8 =$ _____

18. $(5 + 2) \cdot 8 =$ _____

19. $6 - 4 \cdot 5 =$ _____

20. $(2 + 3) \cdot (5 - 1) =$ _____

21. $2 + 3 \cdot (5 - 1) =$ _____

22. $(6 - 4) \cdot 5 =$ _____

23. $(2 + 3) \cdot 5 - 1 =$ _____

24. $2 + 3 \cdot 5 - 1 =$ _____

25. $20 \div 4 + 6 =$ _____

26. $20 - 8 \div 2 =$ _____

27. $(20 - 8) \div 2 =$ _____

28. $20 \div (4 + 6) =$ _____

Find the value of each expression if $y = 15$.

29. $5y =$ _____

30. $y \div 3 =$ _____

31. $y - 8 =$ _____

32. $y + 7 =$ _____

33. $2y + 3 =$ _____

34. $2(y + 3) =$ _____

35. $y - 10 + 8 =$ _____

36. $y - (10 + 8) =$ _____

37. $y - 10 - 8 =$ _____

38. $(y + 10) \div (y - 10) =$ _____

39. $20 - y \div 5 =$ _____

40. $(20 - y) \div 5 =$ _____