

Review - Writing Expressions
Simplifying Expressions

Name Key Hr. _____

Write a word phrase for each algebraic expression. *Answers will vary.*

1. $n+16$

The sum of n and 16

2. $3.2n$

the product of 3.2 and n

3. $15.4-n$

the difference of 15.4 and n

4. $\frac{45}{n}$

the quotient of 45 and n .

Write an algebraic expression for each word phrase.

5. the product of 17 and a number

$17n$

9. 7 more than a number

$n+7$ or $7+n$

6. 14 less than y

$y-14$

10. a number minus 87

$n-87$

7. 8 times a number

$8n$

11. the difference of 9 and g

$9-g$

8. the quotient of 52 and f

$\frac{52}{f}$

12. j decreased by 15

$j-15$

Evaluate the expression using the values $m = 7$, $r = 8$, and $t = 2$.

13. $5m-6$

$5(7)-6$
 $35-6$
 29

14. mrt

$(7)(8)(2)$
 $56(2)$
 112

15. $3m-5t$

$3(7)-5(2)$
 $21-10$
 11

16. $4(-5w-6)$ $w=2$

$4(-5(2)-6)$
 $4(-10-6)$
 $4(-16)$
 -64

17. $6k+3+8k$ $k=-2$

$6(-2)+3+8(-2)$
 $-12+3-16$
 $-28+3$
 -25

18. $-7-\frac{6}{x}$ $x=2$

$-7-\frac{6}{2}$
 $-7-3$
 -10

Simplify each expression.

19. $6x+2+4x+7$

$10x+5$

20. $12w+8+2+4w$

$16w+6$

21. $1y+5y+2+10$

$-4y+8$

22. $4(2x+3)-2x$

$8x+12-2x$

$6x+12$

23. $7(y+3)-5+4y$

$7y+21+5+4y$

$11y+16$

24. $9+6(2x+4)$

$9+12x+24$

$-12x+15$

25. $8+(5a+6)$

$8+5a+6$

$-5a+2$

26. $7+(4+3w)$

$7+4+3w$

$3w+3$

27. $3+(5g+2)-4$

$3+5g+2-4$

$-5g+3$

Factor

28. $6x+18$

$6(x+3)$

29. $-9x+15$

$-3(3x-5)$

30. $7x+21$

$7(x+3)$