

Name		Date	Class
SECTION Ready t	to Go On? Qui	Z continued	
1 A		1	
1-4 Applying Ex Multiply.	ponents		
17. 775 • 10 ⁴	18. 0.13 • 10 ⁶	19. 5.357 • 10 ²	20. 86.25 • 10 ⁷
7,750,00	0 130,000	535,7	862,500,000
Write each number	in scientific notation	•]	
21. 38,000,000	22. 14,500	23. 4,700,000	24. 397,000
3.8 × 107	1.45 × 104	4.7×10°	3.97 × 105
	ut 150,000,000 kilomet ce in scientific notation		1.5×108
1-5 Order of Op Simplify each expre			
26. (10 + 4) - 6 + 4	2 24	27. $35 - 4 \cdot 9 + 5^3$	124
28. (3 • 7) + 6 • 4 -	17 28	29. $10^2 \div 5^2 + (28)$	- 13) <u>19</u>
30. $5(7-3)^3 + 2^4$	334	31. $2(6+8) \div (4^2 -$	- 9) 4
1-6 Properties			
Name the property you should use to simplify each expression.			
32. 7(35)	33. 64 • 1	34. 4 + 59 + 36	35. (4 • 9) • 25
Distributive	Identity	Commutat	the Associative
Simplify each expre	ession using mental r	nath.	
36. (88 + 0) + (12 •	1) 100	37. 6(49) <u>294</u>	
38. (14 + 9) + 6 <u>2</u>	9	39. 8(23) <u>184</u>	

40. 2 • (5 • 16) <u>160</u>

41. 3 + 89 + 17 09

Holt Mathematics

Name

_____ Date _____ Class _____

SECTION | Ready to Go On? Quiz

1-7 Variables and Algebraic Expressions

Evaluate each expression for the given value of the variable.

- **1.** 6x 14 for x = 5**3.** $(9 + k) \cdot 8$ for $k = 1 \frac{80}{8}$ 5. $n^3 - 35$ for n = 6
- 7. 9 x + t for x = 3 and t = 10 $\frac{16}{16}$ 8. 4 q^2 (m ÷ 3) for q = 7
- **2.** $3r^2 \div 12$ for r = 4 _ 4 **4.** 4($v \div 3$) for $v = 15 \frac{20}{20}$ 6. 4pt for p = 3 and t = 5and m = 33 185

1-8 Translate Words into Math

Write each phrase as an algebraic expression.

- 9. the product of a number and 7 $\underline{7}$ **10.** add 25 to a number \underline{d} + 25
- **11.** a number decreased by 6 $\underline{n-L}$
- **13.** 3 times a number 34
- **12.** the quotient of a number and $5 \frac{a:5}{5}$ or $\frac{a}{5}$ **14.** take away 14 from a number -14

15. Sarah was 116 cm tall when she started to measure her height. She grows an average of 3 cm each month. Write an algebraic expression to show Sarah's height after h months.

1-9 Simplifying Algebraic Expressions

Simplify each expression.

16. 6x - 7 + 3x - 7x

17. $3v^3 + 3v^2 + v^2 - 8$ **18.** 5 - 6b + a + b

a

2x-7 <u>3y³+4y²-8</u> <u>5-5b+a</u>

116+3h

19. 2h + 10 - 5h + 7g + 3g **20.** $5r^2 - 34 + 100 + 3r^2$ **21.** 10 - 4h - 5h - 2h

2a

-3h+10+10g 8r2+66 10-11h

22. Write an expression for the perimeter of the figure. Then simplify the expression.

4a+2b a + a + 2a + b + b

Copyright © by Holt, Rinehart and Winston. All rights reserved.



25

Holt Mathematics

Name

SECTION Ready to Go On? Quiz continued 18

1-10 Equations and Their Solutions

Determine whether each number is a solution for the given equation.

- **23.** 4x = 16; 4 3 = 4; 8 9 = 24; **26.** $5r = 20; 3 \underline{n0}$ **27.** $29 - t = 13; 16 \underline{45}$ **28.** $n \div 2 = 12; 24 \underline{45}$
- 29. Maria ran 37 miles last month. This month, she ran 8 more miles than last month. Did Maria run 29 miles or 45 miles?

1-11 Addition and Subtraction Equations Solve each equation.

30. 3 + p = 26 p = 23 **31.** 7 - r = 5 r = 2 **32.** t - 9 = 25 t = 34**33.** y + 7 = 15 y = 8 **34.** f + 14 = 30 f = 16 **35.** 46 - c = 31 c = 15 **36.** 89 - h = 56 h = 33 **37.** g - 27 = 18 g = 45 **38.** e + 23 = 60 c = 37

1-12 Multiplication and Division Equations Solve each equation.

39. 4y = 244=6**40.** $r \div 7 = 6$ f = 42**41.** $30 \div t = 6$ t = 5**42.** 7k = 63k = 9**43.** 3f = 33f = 11**44.** $\frac{h}{4} = 8$ h = 32**45.** $169 = 13n \underbrace{n=13}_{\chi=5}$ **46.** $\frac{45}{\chi} = 9 \underbrace{\chi=5}_{\chi=5}$

47. $8p = 96 \quad \rho = 12$

48. Nicole has 36 trading cards that she wants to divide equally among her friends. If each friend gets nine cards, how many friends does Nicole have?

Atrends

45 miles

_____ Date Class