**14.** **GEOGRAPHY** About 15% of all federally-owned land in the 48 contiguous states of the United States is in Nevada. If *F* represents the area of federally-owned land in these
states, and *N* represents the portion in Nevada, write an equation for this situation.

**6.** The total cost *C* of gas is the price *p* per gallon times the number of gallons *g*.

**7.** The sum *S* of the measures of the angles of a polygon is equal to 180 times the difference of the number of sides *n* and 2.

**Practice**

***Writing Equations***

**9.** $\frac{3}{5}$*t* + 2 = *t*

**8.** *r* – (4 + *p*) = $\frac{1}{3}$*r*

**15.** **FITNESS** Deanna and Pietra each go for walks around a lake a few times per week. Last week, Deanna walked 7 miles more than Pietra.

*Glencoe Algebra 1*

Chapter 2

**8**

If Pietra walked 11 miles during the week, how many miles did the two girls walk

together?

**c.**

If Pietra walked 9 miles during the week, how many miles did Deanna walk?

**b.**

If *p* represents the number of miles Pietra walked, write an equation that represents

the total number of miles *T* the two girls walked.

**a.**

**13.** *c* = regular cost of one airline ticket

0.20*c* = amount of 20% promotional discount

3(*c* – 0.20*c*) = 330

**12.**  *a* = cost of one adult’s ticket to zoo

*a* – 4 = cost of one children’s ticket to zoo

2*a* + 4(*a* – 4) = 38

**Write a problem based on the given information.**

**11.** 2(*m* – *n*) = *x* + 7

**10.** 9($y^{2}$ + *x*) = 18

**Translate each equation into a sentence.**

**Translate each sentence into a formula.**

**5.** Degrees Kelvin *K* equals 273 plus degrees Celsius *C*.

**Translate each sentence into an equation.**

**1.** Fifty-three plus four times *b* is as much as 21.

**2.** The sum of five times *h* and twice *g* is equal to 23.

**3.** One fourth the sum of *r* and ten is identical to *r* minus 4.

**4.** Three plus the sum of the squares of *w* and *x* is 32.

**2-1**

NAME DATE PERIOD



