**1-3 Practice**

***Solving Equations***

**Write an algebraic expression to represent each verbal expression.**

 **1.** 2 more than the quotient of a number and 5 **2.** the sum of two consecutive integers

 **3.** 5 times the sum of a number and 1 **4.** 1 less than twice the square of a number

**Write a verbal sentence to represent each equation.**

 **5.** 5 – 2*x* = 4 **6.** 3*y* = $4y^{3}$

 **7.** 3c = 2(c – 1) **8.** $\frac{m}{5}$ = 3(2*m* + 1)

**Solve each equation. Check your solution.**

**13.** 14 = 8 – 6*r* **14.** 9 + 4*n* = –59

**15.** $\frac{3}{4}$ – $\frac{1}{2}$*n* = $\frac{5}{8}$ **16.** $\frac{5}{6}$*c* + $\frac{3}{4}$ = $\frac{11}{12}$

**17.** –1.6*r* + 5 = –7.8 **18.** 6*x* – 5 = 7 – 9*x*

**19.** 5(6 – 4*v*) = *v* + 21 **20.** 6*y* – 5 = –3(2*y* + 1)

**Solve each equation or formula for the specified variable.**

**21.** *E* = $mc^{2}$, for *m* **22.** *c* = $\frac{2d + 1}{3}$, for *d*

**23.** *h* = *vt* – $gt^{2}$, for *v* **24.** *E* = $\frac{1}{2}Iw^{2}$ + *U*, for *I*

**25. GEOMETRY** The length of a rectangle is twice the width. Find the width if the perimeter is 60 centimeters. Define a variable, write an equation, and solve the problem.

**26. GOLF** Luis and three friends went golfing. Two of the friends rented clubs for $6 each. The total cost of the rented clubs and the green fees for each person was $76. What was the cost of the green fees for each person? Define a variable, write an equation, and solve the problem.