

- 11 CALS NO ULA	2 FRIOR TO 1831
Tell whether the number is a real number, a rational number, an	
irrational number, an integer, or a whole number.	ALL REAL NUMBERS

2. V90

3.  $-\sqrt{144}$ 

RAT.

IRRAT.

RAT.

INTEGER

Order the numbers in the list from least to greatest.

5. 
$$-\frac{5}{3}$$
, -2, 3,  $\frac{1}{2}$ , -1.07  
-1<sup>2</sup>/<sub>3</sub>  $\left[-\frac{5}{2}, -\frac{5}{3}, -\frac{1.07}{2}, \frac{6}{12}, \frac{1}{3}\right]$   $\left[-\frac{725}{25}, -\frac{4}{3}, \frac{3}{2}, \frac{0}{12}, \frac{1}{3}\right]$  Find the sum difference  $\frac{1}{3}$ ,  $\frac{1}{3}$ ,

Find the sum, difference, product, or quot

7. -5+2 (-3) 8.  $1.3+(-10.4)\sqrt{-9.1}$  9.  $-\frac{1}{3}+\frac{1}{6}\sqrt{-1/6}$  10.  $-\frac{2}{7}-\frac{5}{14}\sqrt{-9/14}$ 

11. -41 - 32 (-73) 12. 7.2 - (-11.6) (18.8) 13. -11(-7) (77) 14. -4.5(20)(2) (-180)

NOW HOLE #'S

15.  $-\frac{1}{5}(-20)(-5)$  16.  $-36 \div (-6)$  (6) 17.  $-\frac{3}{5} \div 12$   $-\frac{1}{2}$  18.  $5 \div \left(-\frac{10}{11}\right)$   $-\frac{5}{12}$ 

Evaluate the expression when x = -6 and y = -10.

8-4=(4)

Simplify the expression.

**23.** -9(y-7)

24. 8(x-4) - 10x 25.  $\frac{-7w-21}{7}$  26.  $\frac{-16v+8}{-4}$ In Exercises 27 and 28, rewrite the conditional statement in if-then form. Then tell whether the statement is true or false. If it is false, give a counterexample.

27. No rational numbers are integers. IF A NUMBER IS RATIONAL THEN IT IS NOT AN

28. All irrational numbers are real numbers. True

INTEGER IS FALSE 1EX/ - 2 is RAT + INTEGER

29. MUSIC The revenue from sales of digital pianos in the United States was \$152.4 million in 2001 and \$149.0 million in 2002. Find the change in revenue from 2001 to 2002. | REVENUE DECREASED -\$3.4 Million

30. **ELEVATORS** An elevator moves at a rate of -5.8 feet per second from a height of 300 feet above the ground. It takes 3 seconds for the elevator to make its first stop. How many feet above the ground is the elevator now?

300+3(-5.8) = [282.6 FT]

ABOUE GROWN

31. SUMMER JOBS You plan to work a total of 25 hours per week at two summer jobs. You will earn \$8.75 per hour working at a cafe and \$10.50 per hour working at an auto shop. Write an equation that gives your weekly pay p (in dollars) as a function of the time t (in hours) spent working at the cafe. Then find your weekly pay if you work

KI: 25 HESPERWK FOR 2 \$8.75/nr-Cafe \$10.50/hr-auto

P=WEEKLY PAY \$'S T=Time (HRS)

25-T = AT AUTO

10 hours at the cafe P=8.75T + 10.50 (25-T)

Simplify P=-1.75T + 262.5 PAID \$245 IF WOLK HRS

32. TEMPERATURES The low temperatures for Montreal, Quebec, in Canada AT CAFE on February 12 for each year during the period 2000–2004 are -6.7°F, -4.2°F, 4.1°F, -3.6°F, and 0.3°F. Find the mean of the temperatures.

MEAN = -10.1 MEAN TEMP IS -2.02°F