

**<2> Division of Real Numbers**

Evaluate. See Example 2.

19.  $8 \div (-8)$                       20.  $-6 \div 2$   
 21.  $(-90) \div (-30)$               22.  $(-20) \div (-40)$   
 23.  $\frac{44}{-66}$                                   24.  $\frac{-33}{-36}$   
 25.  $\left(-\frac{2}{3}\right) \div \left(-\frac{4}{5}\right)$               26.  $-\frac{1}{3} \div \frac{4}{9}$   
 27.  $0 \div \left(-\frac{1}{3}\right)$                       28.  $0 \div 43.568$   
 29.  $40 \div (-0.5)$                     30.  $3 \div (-0.1)$   
 31.  $-0.5 \div (-2)$                     32.  $-0.75 \div (-0.5)$

**<3> Division by Zero**

Evaluate. If the operation is undefined say so. See Example 3.

33.  $0 \div 125$                             34.  $0 \div (-99)$   
 35.  $\frac{-125}{0}$                                     36.  $\frac{3.5}{0}$   
 37.  $\frac{1}{2} \div 0$                               38.  $0.236 \div 0$   
 39.  $\frac{0}{2}$                                       40.  $\frac{0}{-5}$

**Miscellaneous**

Perform the indicated operations.

41.  $(25)(-4)$                           42.  $(5)(-4)$   
 43.  $(-3)(-9)$                         44.  $(-51) \div (-3)$   
 45.  $-9 \div 3$                             46.  $86 \div (-2)$   
 47.  $20 \div (-5)$                         48.  $(-8)(-6)$   
 49.  $(-6)(5)$                             50.  $(-18) \div 3$   
 51.  $(-57) \div (-3)$                     52.  $(-30)(4)$   
 53.  $(0.6)(-0.3)$                       54.  $(-0.2)(-0.5)$   
 55.  $(-0.03)(-10)$                     56.  $(0.05)(-1.5)$   
 57.  $(-0.6) \div (0.1)$                     58.  $8 \div (-0.5)$   
 59.  $(-0.6) \div (-0.4)$                 60.  $(-63) \div (-0.9)$   
 61.  $-\frac{12}{5} \left(-\frac{55}{6}\right)$                         62.  $-\frac{9}{10} \cdot \frac{4}{3}$   
 63.  $-2\frac{3}{4} \div 8\frac{1}{4}$                             64.  $-9\frac{1}{2} \div \left(-3\frac{1}{6}\right)$

Use a calculator to perform the indicated operations. Round approximate answers to two decimal places.

65.  $(0.45)(-365)$                     66.  $8.5 \div (-0.15)$   
 67.  $(-52) \div (-0.034)$               68.  $(-4.8)(5.6)$

Fill in the parentheses so that each equation is correct.

69.  $-5 \cdot ( ) = 60$                     70.  $-9 \cdot ( ) = 54$   
 71.  $12 \cdot ( ) = -96$                     72.  $11 \cdot ( ) = -44$   
 73.  $24 \div ( ) = -4$                     74.  $51 \div ( ) = -17$   
 75.  $-36 \div ( ) = 36$                     76.  $-48 \div ( ) = 6$   
 77.  $-40 \div ( ) = -8$                     78.  $-13 \div ( ) = -1$

Perform the indicated operations. Use a calculator to check.

79.  $(-4)(-4)$                           80.  $-4 - 4$   
 81.  $-4 + (-4)$                         82.  $-4 \div (-4)$   
 83.  $-4 + 4$                               84.  $-4 \cdot 4$   
 85.  $-4 - (-4)$                         86.  $0 \div (-4)$   
 87.  $0.1 - 4$                             88.  $(0.1)(-4)$   
 89.  $(-4) \div (0.1)$                     90.  $-0.1 - 4$   
 91.  $(-0.1)(-4)$                         92.  $-0.1 + 4$   
 93.  $|-0.4|$                                 94.  $|0.4|$   
 95.  $\frac{-0.06}{0.3}$                                 96.  $\frac{2}{-0.04}$   
 97.  $\frac{3}{-0.4}$                                     98.  $\frac{-1.2}{-0.03}$   
 99.  $-\frac{1}{5} + \frac{1}{6}$                                 100.  $\frac{3}{5} - \frac{1}{4}$   
 101.  $\left(-\frac{3}{4}\right)\left(\frac{2}{15}\right)$                         102.  $-1 \div \left(-\frac{1}{4}\right)$



VIDEO



Use a calculator to perform the indicated operations. Round approximate answers to three decimal places.

103.  $\frac{45.37}{6}$                                     104.  $(-345) \div (28)$   
 105.  $(-4.3)(-4.5)$                     106.  $\frac{-12.34}{-3}$   
 107.  $\frac{0}{6.345}$                                 108.  $0 \div (34.51)$   
 109.  $199.4 \div 0$                         110.  $\frac{23.44}{0}$

**Applications**

111. **Big loss.** Ford Motor Company's profit for 2006 was  $-\$12.7$  billion. Find the rate in dollars per minute (to the nearest dollar) at which Ford was "making" money in 2006.
112. **Negative divided by a positive.** As of January 2007, the national debt was  $\$8.686$  trillion dollars and the U.S. population was 300.814 million people. Find the amount of the debt per person to the nearest dollar.