

Pre-Algebra
Homework 5: Fractions III

Write the Product in lowest terms.

(1) $\frac{1}{2} \times 5$

(2) $\frac{4}{7} \times 7$

(3) $\frac{1}{2} \times \frac{2}{3}$

(4) $\frac{1}{3} \times \frac{7}{12}$

(5) $\frac{1}{b} \times 7$

(6) $\frac{9}{11} \times g$

(7) $3\frac{1}{3} \times \frac{1}{6}$

(8) $4\frac{1}{2} \times \frac{2}{y}$

Write an equation and solve.

(9) Twice $\frac{3}{4}$ is some number. What is the number?

(10) The product of $\frac{2}{3}$ and 20 is some number. What is the number?

(11) A gas tank hold 18 gallons of gasoline. When the tank is 75% full, how many gallons does it contain?

(12) 25 students in an art class were each given $\frac{2}{3}$ pounds of clay. What is the total weight of clay given to the students?

Write the quotient in lowest terms.

(13) $\frac{1}{2} \div 3$

(14) $\frac{1}{4} \div 5$

(15) $\frac{7}{2} \div \frac{2}{3}$

(16) $\frac{3}{5} \div \frac{1}{5}$

(17) $\frac{11}{10} \div \frac{7}{2}$

(18) $4\frac{1}{2} \div \frac{9}{11}$

(19) $3\frac{1}{3} \div \frac{1}{x}$

(20) $2\frac{2}{5} \div \frac{3}{4n}$

Write an expression and solve.

(21) At the science fair, four students plan to display their exhibits on a table $18\frac{1}{2}$ feet long. How long will each section be if the students divide the space equally among themselves?

(22) How many small pillows can be made from a piece of fabric that measures $3\frac{1}{3}$ yards? Each small pillow requires $\frac{5}{6}$ yards of fabric.

(23) A City Cab charges a flat fee of \$2.0 plus \$0.75 for every $\frac{1}{2}$ mile. A driver charged Jane a total of \$8.50 for a trip to the airport. How many miles is Jane's home to the airport?

(24) A magazine club has 3125 subscribers this month. This is a quarter more than the number of subscribers last month. How many subscribers were there last month?