

► Write Equations

Write and solve an equation to find the amount of money each student spent at the school bookstore.

1. Takumi: 1 eraser for \$0.59 and 6 pencils for \$0.15 each

Equation: _____

Answer: _____

2. Jasmine: 8 book covers for \$0.90 each and 1 pen for \$0.49

Equation: _____

Answer: _____

3. Dalton: 12 notebooks for \$1.75 each and 1 marker for \$1.59

Equation: _____

Answer: _____

4. Jimena: 1 compass for \$2.50 and 6 portfolios for \$1.25 each

Equation: _____

Answer: _____

5. Todd: 3 watercolor brushes for \$2.39 each and a pencil sharpener for \$0.89

Equation: _____

Answer: _____

► Solve Equations With Parentheses

Solve each equation.

6. $(5 \cdot 60) - 2 = n$ $n =$ _____

7. $2.5 + (4 \div 0.1) = b$ $b =$ _____

8. $3 \cdot \left(1\frac{1}{2} - \frac{1}{8}\right) = z$ $z =$ _____

9. $\left(2 \div \frac{1}{4}\right) - 1 = v$ $v =$ _____

10. $\left(1\frac{3}{4} \div 3\right) + \frac{1}{4} = c$ $c =$ _____

11. $10 + \left(\frac{2}{3} \cdot 6\right) = h$ $h =$ _____

12. $1.55 - (0.7 \cdot 2) = r$ $r =$ _____

13. $(0.01 \cdot 100) - 1 = w$ $w =$ _____



► Solve Two-Step Word Problems

Solve.

Show your work.

14. A suburban shopping mall has 105 rows of parking spaces with 45 spaces in each row. A special permit is required to park in 630 of those spaces. How many spaces (s) do not require a special permit?

Equation: _____ Answer: _____

15. A recipe that makes 6 servings requires $1\frac{1}{4}$ cups of flour. How much flour (f) would be needed to make the recipe for one-half the number of servings?

Equation: _____ Answer: _____

16. An apple orchard in Minnesota has 8 rows of 26 honeycrisp trees and 14 rows of 23 red delicious trees. How many honeycrisp and red delicious trees (t) are in the orchard?

Equation: _____ Answer: _____

17. An investor purchased 250 shares of stock. Calculate the investor's total cost (c) if the price per share was \$18.40 and a fee of \$65.75 was charged for the transaction.

Equation: _____ Answer: _____

18. An orange grove in Florida has 865 ambersweet trees and 32 rows of 40 sunstar trees. How many more (m) sunstar than ambersweet trees does the orchard have?

Equation: _____ Answer: _____

19. A manufacturing facility records the time its employees work each week in fractions of an hour.

Taliyah W. $25\frac{1}{2}$ hr Avery S. $7\frac{3}{4}$ hr Claire N. $39\frac{1}{4}$ hrHow many more hours (h) did Claire work than the combined hours of Taliyah and Avery?

Equation: _____ Answer: _____

► Too Much or Too Little Information

Solve each problem if possible. If a problem has too much information, identify the extra information. If a problem has too little information, describe the information that is needed to solve the problem.

Show your work.

Meiling is reading a 228-page book. Yesterday she read the first 41 pages of the book. Today she read the next 13 pages. Her goal tomorrow is to read 10 pages. How many pages of the book have not been read?

20. What information is not needed to solve the problem?

21. Write the information that is needed to solve the problem. Then solve the problem.

The students in Mr. Westgate's class have been arranged in equal groups for an activity. There are four students in each group.

22. How many students are participating in the activity?

To prepare for a math test, Kelsey studied for $\frac{1}{2}$ hr, Lila studied for $\frac{3}{4}$ hr, Ricardo studied for $\frac{1}{3}$ hr, and Marcus studied for 1 hour. Did Marcus study longer than the combined times of Ricardo and Kelsey?

23. What information is not needed to solve the problem?

24. Write the information that is needed to solve the problem. Then solve the problem and explain your answer.

► Practice Problem Solving

Solve each problem if possible. If a problem has too much information, identify the extra information. If a problem has too little information, describe the information that is needed to solve the problem.

25. A wallpaper border is being pasted on the walls of a rectangular room that measures 12 feet by $14\frac{1}{2}$ feet. The cost of the border is \$6.50 per foot. How many feet of border is needed for the room?

26. Ms. Bleyleven has 11 windows in her house. The heights in centimeters of 4 windows are shown below.

160.2 cm 163 cm 155.9 cm 158.5 cm

How many windows in her house have a height that is a whole number of centimeters?

27. Anja has worked at her job for $6\frac{1}{2}$ years. Each year she works 48 weeks, and each week she works $37\frac{1}{2}$ hours. How many hours does Anja work each year?

28. During a driving vacation, a car was refueled 5 times. At the beginning of the vacation, the car odometer read 19,417 miles, and read 21,068 miles at the end of the vacation. How many gallons of fuel were needed to drive that number of miles?
