

► Solve Multistep Problems

Solve.

Show your work.

- An investor purchased 150 shares of stock at \$13.60 per share, and sold the shares later for \$11.92 per share. Calculate the profit or loss of the transaction.
 - What equation can be used to find the amount of money needed to buy (b) the shares?

 - What equation can be used to find the amount of money received for selling (s) the shares?

 - Does the transaction represent a profit or loss? Why?

 - What equation can be used to calculate the loss (l)? Solve your equation to calculate the loss.

- A soccer team plays 10 games each season. Last season the team scored an average of 2.5 goals per game in its first six games, and 3.25 goals per game in its final four games. How many goals (g) were scored by the team last season?

- The charge for an automobile repair was \$328.50 for parts and \$64 per hour for labor. The repair took $3\frac{3}{4}$ hours. What was the total cost (c) of the repair?

- An auditorium has 215 rows of seats with 35 seats in each row. A reservation is required to sit in the first 6 seats of 75 rows. How many seats (s) do not require a reservation?

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5. At the school bookstore, Dakota purchased a notebook for \$3.75, 6 pencils for \$0.20 each, and 2 pens for \$1.19 each. By what amount (a) was cost of the pens greater than the cost of the pencils?
- _____
6. A grocery store charges \$4.75 for a 26-ounce jar of peanut butter. A case of peanut butter contains 24 jars. What profit (p) is earned for selling 3 cases of peanut butter if the store's cost for the 3 cases is \$165.90?
- _____
7. This week an employee is scheduled to work $7\frac{1}{2}$ hours each day Monday through Friday, and 2 hours on Saturday morning. If the employee's goal is to work 40 hours, how many additional hours (h) must be worked?
- _____
8. Ryan went shopping and purchased two shirts for \$16 each, and a pair of sneakers that cost $2\frac{1}{2}$ times as much as a shirt. What amount of money (m) did Ryan spend?
- _____
9. At home last night, Reza spent 35 minutes doing homework, which is 10 more minutes than Colette. Katerina worked twice as long as Colette, but 5 fewer minutes than Orvis. How long (l) did Orvis spend doing homework last night?
- _____
10. At closing time, 55 adults and 89 students are waiting in line to ride an amusement park roller coaster. The capacity of the coaster is 38 riders. How many trips (t) must the coaster make to give all of the people in line a ride? How many people will be on the last trip of the day?
- _____