Homework

Activity 1

Use algebra to solve the functions.

1. $y = 0.10x + 20$ for $y = 360$
2. $y = 0.20x + 10$ for $y = 210$
3. $y = 0.50x + 40$ for $y = 140$
4. $y = 0.30x + 30$ for $y = 930$

Activity 2

Write an equation for each function using the car rental contracts.

Model A rental car costs \$50 plus 20 cents per mile. Write the equation that describes this function.

Answer: $y = 0.20x + 50$

1. A rental car costs \$25 plus 10 cents per mile. Write the equation.
2. A rental car costs \$100 plus 5 cents per mile. Write the equation.
3. A rental car costs \$20 plus 30 cents per mile. Write the equation.
4. A rental car company only charges per mile. The rate is \$1 per mile. Write the equation.

Activity 3

For each of the everyday functions, write the equation that describes the function. Use $y = mx + b$ form.

1. Todd is a busboy at a popular restaurant. He gets paid \$8 per hour and \$50 per night he works. Write an equation that describes this function.
2. Loretta has a babysitting business and she charges \$10 per hour and a flat fee of \$5 per job. Write an equation that shows this function.
3. The tickets for the baseball game cost \$30 per ticket plus a \$10 processing fee for each group purchasing tickets. Write an equation that shows this function.

Activity 4 • Distributed Practice

Solve.

1. $-24 + -18 + -14$
2. $27 - 4 - 8$
3. $-18 \div 9$
4. $-9 \cdot -8$
5. $-170 - -90$
6. $417 - 503$