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## 4-5 Homework

## Write a function rule that represents each sentence.

- **1.** 5 less than one fourth of x is y.
- **2.** 7 more than the quotient of a number *n* and 4 is 9.
- **3.** P is 9 more than half of q.
- **4.** 8 more than 5 times a number is -27.
- **5.** 1.5 more than the quotient of *a* and 4 is *b*.

## For Exercises 6–10, write a function rule that represents each situation.

- 6. The price p of an ice cream is \$3.95 plus \$0.85 for each topping t on the ice cream.
- **7.** A babysitter's earnings *e* are a function of the number of hours *n* worked at a rate of \$7.25 per hour.
- 8. The price *p* of a club's membership is \$30 for an enrollment fee and \$12 per week *w* to be a member.
- **9.** A plumber's fees f are \$75 for a house call and \$60 per hour h for each hour worked.
- **10.** A hot dog *d* costs \$1 more than one-half the cost of a hamburger *h*.
- **11.** José is 3 years younger than 3 times his brother's age. Write a rule that represents José's age *j* as a function of his brother's age *b*. How old is José if his brother is 5?
- **12.** A taxicab charges \$4.25 for the first mile and \$1.50 for each additional mile. Write a rule for describing the total rate r as a function of the total miles m. What is the taxi rate for 12 miles?

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