INTERPRETING SLOPE AND VERTICAL INTERCEPT.

1. Richards' Yoga Center has done some research and found that their income, I, can be written as a function of the number of floor mats sold, n. Let $I(n) = 11n - 3$.

2. Richards' Restaurant has done some research and found that their profit, P, can be writt as a function of the number of meals sold, n. Let $P(n) = 3n + 2$.

3. Tom's Fish Store has done some research and found that their cost, C, can be written as function of the number of fish hooks made, n. Let $C(n) = 8n + 9$.

4. Tom's Pool Company has done some research and found that their income, I, can be written as a function of the number of inground pools sold, n. If $I(n) = 6n + 6$.

5. Laurie's Yoga Center has done some research and found that their profit, P, can be written as a function of the number of floor mats sold, n. Let $P(n) = n + 9$.

6. Mary's Tire Company has done some research and found that their cost, C, can be writ as a function of the number of tires made, n. Let $C(n) = 2n + 9$.

7. Tom's Awning Retailer has done some research and found that their profit, P, can be written as a function of the number of awnings sold, n. Let $P(n) = 10n - 8$.

8. A small-appliance manufacturer finds that if he produces x toaster ovens in a month hi production cost is given by the equation $y = 6x + 3000$ (where y is measured in dollar What do the slope and vertical intercept of the line represent?

9. The manager of a week-end flea market knows from past experiences that if she charg x dollars for a rental space at the flea market, then the number y of spaces she can rent given by the equation $y = 200 - 4x$. What do the slope and y-intercept of the graph represent?

10. Some scientists believe that the average surface temperature of the world has been risi steadily. The average surface temperature is given by $T = 0.02t + 8.50$ where T is temperature in °C and t is years since 1900. What do the slope and vertical intercept represent? Use the equation to predict the average global surface temperature in 2100.

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