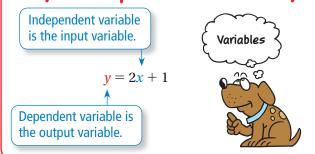
REVIEW: Independent and **Dependent Variables**

Key Concept and Vocabulary



Visual Model

Independent Variable	Expression	Dependent Variable
x	2x + 1	у
1	2(1) + 1	3
2	2(2) + 1	5
3	2(3) + 1	7

Skill Examples

- **1.** In y = 3x 2, x is the independent variable and *y* is the dependent variable.
- **2.** In $C = 2\pi r$, r is the independent variable and *C* is the dependent variable.
- **3.** In $A = \ell w$, ℓ and w are the independent variables and A is the dependent variable.

Application Example

- **4.** Your income *i* is calculated from the total time t worked. Identify the independent variable and the dependent variable.
 - Total time *t* is the independent variable and your income i is the dependent variable.

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Identify the independent variable(s) and the dependent variable.

5.
$$y = 6x + 1$$

5.
$$y = 6x + 1$$
 _____ **7.** $A = \pi r^2$ _____

7.
$$A = \pi r^2$$

8.
$$m = 15 - n$$

9.
$$V = \ell wh$$

8.
$$m = 15 - n$$
 ______ **9.** $V = \ell wh$ _____ **10.** $P = 2\ell + 2w$ _____

Hours Studying, h	Test Score,
2	72%
3	80%
5	91%
7	98%

Number of CDs, n	Total Cost,
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13. DISTANCE To find the distance *d* traveled, you multiply the rate *r* by the time *t*. Identify the independent variables and the dependent variable.