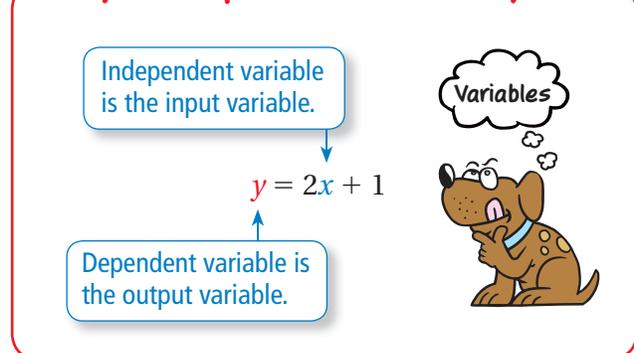


REVIEW: Variables

Name _____

Key Concept and Vocabulary



Visual Model

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

Skill Examples

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

Application Example

- 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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Check your answers at BigIdeasMath.com.

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

5. $y = 6x + 1$ $x; y$ 6. $A = \frac{1}{2}bh$ $b, h; A$ 7. $A = \pi r^2$ $r; A$

8. $m = 15 - n$ $n; m$ 9. $V = \ell wh$ $\ell, w, h; V$ 10. $P = 2\ell + 2w$ $\ell, w; P$

11.

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

$h; s$

12.

Number of CDs, n	Total Cost, c
1	\$9.99
2	\$19.98
3	\$29.97
4	\$39.96

$n; c$

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.

$r, t; d$