

Name _____

Independent and Dependent Variables**COMMON CORE STANDARD—6.EE.9***Represent and analyze quantitative relationships between dependent and independent variables.***Identify the independent and dependent variables. Then write an equation to represent the relationship between them.**

1. Sandra has a coupon to save \$3 off her next purchase at a restaurant. The cost of her meal c will be the price of the food p that she orders, minus \$3.

The cost of her meal depends on the price of her food.

dependent variable: c

independent variable: p

equation: $c = p - 3$

2. An online clothing store charges \$6 for shipping, no matter the price of the items. The total cost c in dollars is the price of the items ordered p plus \$6 for shipping.

dependent variable: _____

independent variable: _____

equation: _____ = _____

4. Tanner is 2 years younger than his brother. Tanner's age t in years is 2 less than his brother's age b .

dependent variable: _____

independent variable: _____

equation: _____ = _____

3. Melinda is making necklaces. She uses 12 beads for each necklace. The total number of beads b depends on the number of necklaces n .

dependent variable: _____

independent variable: _____

equation: _____ = _____

5. Byron is playing a game. He earns 10 points for each question he answers correctly. His total score s equals the number of correct answers a times 10.

dependent variable: _____

independent variable: _____

equation: _____ = _____

Problem Solving

6. Maria earns \$45 for every lawn that she mows. Her earnings e in dollars depend on the number of lawns n that she mows. Write an equation that represents this situation.

7. Martin sells cars. He earns \$100 per day, plus any commission on his sales. His daily salary s in dollars depends on the amount of commission c . Write an equation to represent his daily salary.
