

Name: _____

Independent and Dependent Variables

Writing Equations

Example: A sailboat travels at an average speed of 17 miles per hour. The total distance, d , in miles that the sailboat travels is equal to the rate times the number of hours, h .

The distance depends on the number of hours sailing.

Dependent variable: *distance (d)*

Independent variable: *number of hours (h)*

Equation: $d = 17h$



Preview

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Independent variable: _____

Equation: _____

2. Corey burns 8 calories, c , for every minute, m , she runs on the treadmill. Write an equation to represent how many calories she could burn.

Dependent variable: _____

Independent variable: _____

Equation: _____

Independent and Dependent Variables

Writing Equations

3. Jordan is going kayaking. It costs him \$10.00 per hour, h , and \$4.50 to rent the kayak. Write an equation to represent Jordan's total cost, t , for kayaking.

Dependent variable: _____

Independent variable: _____

Equation: _____



Preview

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Independent variable: _____

Equation: _____

5. Kyshell wants to buy some new clothes for school. Shirts, s , cost \$9.75 each and pants, p , cost \$12.50 each. Write an equation to represent the total cost, t , of Kyshell's clothes.

Dependent variable: _____

Independent variables: _____

Equation: _____

ANSWER KEY

Independent and Dependent Variables

Writing Equations

1. Lucia is taking her family out for ice cream. Each ice cream cone, c , costs \$2.50. Write an equation to represent her total cost, t .

Dependent variable: _____ **total cost (t)** _____

Independent variable: _____ **number of ice cream cones (c)** _____

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Dependent variable: _____ **total cost (t)** _____

Independent variable: _____ **number of shirts (s) and pants (p)** _____

Equation: _____ **$t = 9.75s + 12.50p$** _____