| | | DATE | PER |
|--|--|--|---|
| | INDEPENI | DENT AND DEPENDEN | т |
| the mile | s the function g = 0.05m to find one is he travels m. In quantity in this relationship is the | • | |
| 2. Which | h quantity in this relationship is the | dependent quantity? | . <u></u> |
| | _3. Which of the following statement | ents is true? | |
| A. | . The number of miles Tim travels | depends on how much mor | ney he needs for gasoline. |
| В. | . The number of miles Tim travels | depends on the price of gas | soline. |
| C | . The amount of money Tim needs | for gasoline depends on th | e number of miles he travel |
| D | . The price of gasoline depends or | n the number of miles Tim tr | avels. |
| 4. Tim has situation | as a budget of \$50 to spend on gas ? | | |
| situation | | | |
| D: Rose's r b = 0.1m | ? | R: She can calculate her ph tes used and b represents | one bill using the equations the total bill. |
| D: Rose's r b = 0.1m 5. Which | monthly phone allowance is \$75. | R: She can calculate her photes used and b represents independent quantity? | one bill using the equations the total bill. |
| D: Rose's r b = 0.1m 5. Which | monthly phone allowance is \$75. n + 12, where m represents minute h quantity in this relationship is the | R: She can calculate her photes used and b represents independent quantity? dependent quantity? | one bill using the equations the total bill. |
| D: Rose's r b = 0.1m 5. Which 6. Which | monthly phone allowance is \$75. n + 12, where m represents minute n quantity in this relationship is the n quantity in this relationship is the | R: She can calculate her photes used and b represents independent quantity? dependent quantity? ents is true? | one bill using the equations the total bill. |
| D: Rose's r b = 0.1m 5. Which 6. Which A. | monthly phone allowance is \$75. 1 + 12, where m represents minute 1 quantity in this relationship is the 2 quantity in this relationship is the 3 Which of the following statement | R: She can calculate her photes used and b represents independent quantity? dependent quantity? ents is true? nore than 0.1 times the inde | one bill using the equations the total bill. pendent variable, m. |
| D: Rose's r b = 0.1 m 5. Which 6. Which A. B. | monthly phone allowance is \$75. 1 + 12, where m represents minute 1 quantity in this relationship is the 1 quantity in this relationship is the 2. Which of the following statement. 3 The dependent variable b is 12 minute. | R: | one bill using the equations the total bill. pendent variable, m. ependent variable, b. |
| D: Rose's rb = 0.1m 5. Which 6. Which A. B. | monthly phone allowance is \$75. 1 + 12, where m represents minute 1 quantity in this relationship is the 2 quantity in the following statement 3 The dependent variable b is 12 minute. The dependent variable m is 12 minute. | R: | one bill using the equations the total bill. pendent variable, m. ependent variable, b. pendent variable, m. |

R:___

D: _____

| Mrs. Barrett is planning | to place a fence around her vegetable garden. | The fencing cost \$1.85 |
|---------------------------|---|-------------------------|
| per yard and the delivery | y fee is \$65.50. | |

| 9. Write the equation that can be used to find the total cost, <i>c</i> , of <i>y</i> yards of fencing |
|--|
| 10. Which quantity in this relationship is the independent quantity? |
| 11. Which quantity in this relationship is the dependent quantity? |
| 12. Which of the following statements is true about the above situation? |

- A. The value of y is dependent on c.
- B. The value of *c* is dependent on *y*.
- C. The value of *c* is constant in the relationship to *y*.
- D. The value of *y* is constant in the relationship to *c*.
- 13. Mrs. Barrett estimates that she needs between 50 to 60 yards of fencing to enclose her garden. What is a reasonable range for this situation?

_____14. Holly owns a farm market. The amount a customer pays for green peppers depends on the number of peppers purchased. Holly sells 3 peppers for \$1.75. What is the independent variable?

A. Price per green pepper

C. Total Price

B. Number of green peppers

D. Number of customers

_____15. A home store is having a 10%-off sale on all in-stock bathroom floor tile. Which statement best represents the functional relationship between the sale of the tile and the original price?

- A. The sale price and the original price are independent of each other.
- B. The original price is dependent on the sale price.
- C. The sale price is dependent on the original price.
- D. The relationship cannot be determined.

Solve each of the following.

16.
$$4-2(x-7)=10$$

17.
$$3(x-4)-7x=20$$