

Name _____

Date _____

Recognizing Relationships as an Equation

Write an expression equivalent to each scenario listed below.



1. Every time the car dealer sell a car the manager receives a 10% commission and the sales person receives a 5% commission. The remainder of the sale goes to the dealership.
2. Parking attendants are paid \$9.00 per hour + tips. They all equally share tips. If 4 parking attendants are working together, write an expression to determine their rate of total pay.
3. Victor has 51 football cards. He gives away 24 football cards.
4. Linda has 12 cupcakes. She gives away 8. Write an expression to show how many she has left.

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Recognizing Relationships as an Equation Answer Key

Note that students may use different variables.

1.

x = the total value of the sale.

y = manager's commission. z = sale person's commission. d = dealership's commission

$$x (.85) + x (.10) + x (.05) = \text{total sale}$$

$$d + y + z = \text{total sale}$$

2.

a = number of hours worked b = total tips.

$$\text{Total pay} = 9(a) + (b / 4)$$

3. $51 - 24 = b$

4. $12 - 8 = c$