

NAME _____

Date _____ Period _____

Section 1.5

ALGEBRA

Solving Equations as Word Problems: Practice B

Directions: Solve each problem by following these steps:

Step 1: Make a table of values

Step 2: Identify the constant (the plain number)

Step 3: Identify the variable (how much each block changes in your table of values)

Step 4: Write the constant as a plain number, and “attach” the proper variable to the “changing value”

1. Tim wants air conditioning in his room. The air conditioner costs \$40. Each day the electricity costs \$1. Write an expression that can be used to find the cost to run the air conditioner for d days.

If Tim spent a total of \$85 on cooling his room, how many days did he use the air conditioner?

2. Jane is at an amusement park. The admission cost is \$25. Jane also wants to ride some of the rides, which are \$2 each. Write an expression that can be used to find the cost for Jane to ride r rides.

If Jane spent \$57 at the amusement park (buying only rides & admission), how many rides did she get to go on?

3. Billy is saving up to buy a PSP. He has \$120 right now, and can save \$25 each month. Write an expression that can be used to determine Billy's savings after m months.

If the PSP costs \$195, how many months must Billy save?

4. A gym membership costs \$55 per month, plus \$8 for each training session. Write an expression that can be used to determine the cost of going to the gym for s number of sessions.

If you spent \$143 at the gym this month, how many training sessions did you go to?

5. Betty wants to mail a package. The flat rate for mailing a package is \$20, plus \$3 per pound. Write an expression that can be used to determine the total cost of mailing a package that weighs p pounds.

If Betty spent \$56 to mail her package, how many pounds did it weigh?