LIVEWORKSHEETS

Name: _____

# Variables Practice AND Study Guide

(these are all of the types of questions you may see on the Benchmark and/or SOL)

**Part 1: Identify the Variable**

| *Circle the Variable in each expression.* | | | | |
|---|---|---|---|---|
| a-7=13 | w+3 | 8k=48 | $\frac{16}{m}$ | 28/j=4 |

**Part 2: Solve for the variable**

| | | | |
|---|---|---|---|
| p-4=14<br>p = _____ | a+5=27<br>a = _____ | j-18=34<br>j = _____ | w+3=37<br>w = _____ |
| 4b=24<br>b = _____ | c(7)=35<br>p = _____ | 54/r=6<br>r = _____ | $\frac{15}{y} = 3$<br>y = _____ |

**Part 3: Write the statement as a variable expression**

| | | |
|---|---|---|
| What is the sum of a and 8? | A number, h, increased by 37 is 413. | C divided by 22. |
| A number decreased by 15 is 239. | What is the product of y and 10? | A number, s, times 8 is 48. |

**Part 4: "Word Problems"**

| | | |
|---|---|---|
| Write an equation that represents "Three full bags of candy contain a total of 90 pieces of candy", where c stands for the number of candy pieces in one full bag? | Julie lost 4 beads from her bracelet. It still has 23 beads. Write an open sentence that represents the beads on her bracelet. | Sam has 3 more marbles than Mark. If m is the number of marbles that Mark has, how many marbles does Sam have? |
| Sarah has 18 pieces of green, mint flavored gum to share equally among friends. Which is the variable in this situation?<br>a. The color of the gum<br>b. The number of friends who will get the gum<br>c. The flavor of gum<br>d. The number of pieces of gum | There are y students who volunteered to pull weeds in the school's garden. The principal said she wishes she had 3 times as many volunteers. Write a variable equation to represent this situation. | How many cookies are in a box if the box plus three more equals 23 cookies? Make b stand for the number of cookies in the box. |

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