Name: _____   Date: _____

"Ask" the Right Question to Get the Right Answer-Student Worksheet

Do you know what the answer **means** for a given equation? This is not the same as knowing what the solution **is** for an equation. When you understand what the answer means, you can use the graphing calculator to find the solution to the equation without doing the symbolic manipulation that you would be asked to do as a part of regular class work.

Look at the equation in the problem given below. What is the meaning of the value of **x** in the given equation? _____

1 The area of a rectangle is given by the equation $2x^2 - 5x = 18$, in which x is the rectangle's length. What is the length of the rectangle?

F 1.5
G 2
H 4.5
J 6

What is the length of the rectangle? _____

How can you use the table on the calculator to find the answer to the question?

Look at the equation in the problem given below. What is the meaning of the value of **x** in the given equation? _____

Use the "ASK" capacity of the table to find the answer to the question below.

2 A function is described by the equation $f(x) = x^2 + 5$. The replacement set for the independent variable is {1, 5, 7, 12}. Which of the following is contained in the corresponding set for the dependent variable?

A 0
B 6
C 7
D 15

What is the answer to the question above?

How did you use the calculator the find the solution?

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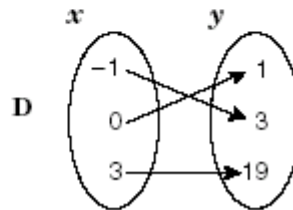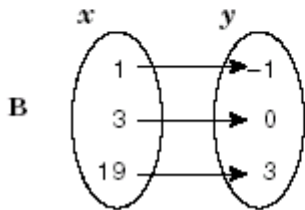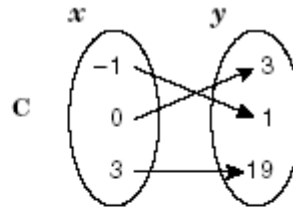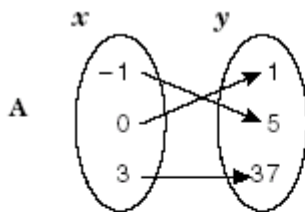
Another question that could be solved efficiently using the ASK capacity of the table is given below.

It also uses the term "mapping". What does the term "mapping" mean?

_____

43 Which mapping best represents the function $y = 2x^2 + 1$ when the replacement set for x is $\{-1, 0, 3\}$?

A

C

B

D

Explain how you can use your graphing calculator to find the answer of the question?

_____

Can you think of another way you could work the question and make sure that you have the correct answer?

_____