I can . . .	Notebook Pages Artifacts	Sample Question
write an equation in function notation.		What is the function notation for the equation $2x+4y=16$?
evaluate a function, given the domain.		Given the function $f(x) = -x^2 + 5x - 7$, evaluate $f(4)$. The domain of the function $g(x) = x^2 - 5x + 4$ is $\{0, 3, 7\}$. What is the range of function ?
evaluate a function in a real-world situation.		Connie's average monthly cost for basic cable service can be modeled by the function $A(x) = \frac{20x+50}{x}$, where x represents the number of months of service. From the onset of service, when should Connie expect her monthly cable bill to average about $\$40$? A. in the 2nd month B. in the 3rd month C. in the 4th month D. in the 5th month The average annual cost to run a dishwasher is approximately \$33. The function $f(x) = \frac{450+33x}{x}$, where *x* is the age of the dishwasher in years, can be used to find the exact annual cost of running a dishwasher. What is the annual cost, to the nearest dollar, of running a 13-year-old dishwasher? Glen exercises on a treadmill. The table below shows the amount of time he exercises and the number of calories he burns. **Treadmill Exercise** **Time (minutes)** 5 15 25 35 45 **Calories Burned** 20 60 100 140 180 Glen exercises for 60 minutes. How many calories does he burn?

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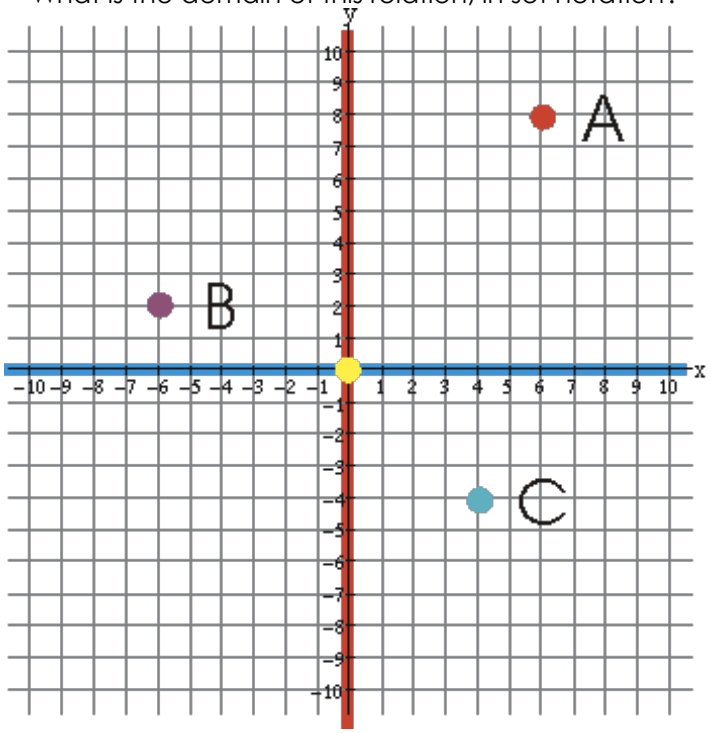
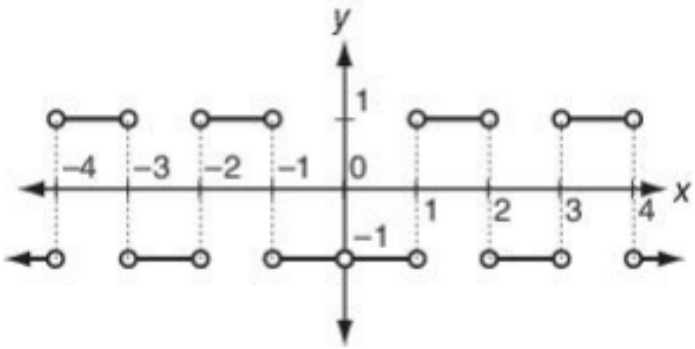
identify the domain of a function given an equation.		What is the domain of $f(x) = \frac{x-6}{x-4}$?
identify the domain of a function given an graph, in set notation.		Four points are shown on the coordinate grid below. What is the domain of this relation, in set notation? 
identify the domain of a function given an graph, in words.		What is the domain of the function of this graph?  A. the set of real numbers that are not integers B. the set of irrational numbers C. the set of integers D. the set $\{-1, 1\}$

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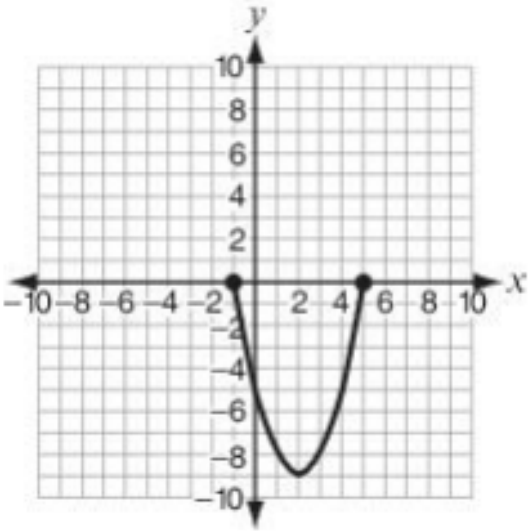
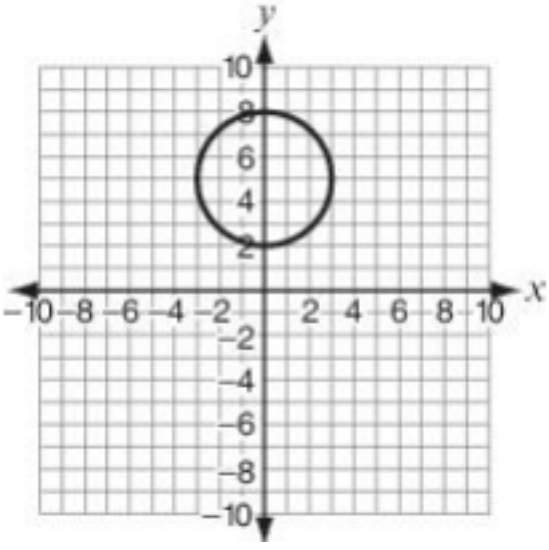
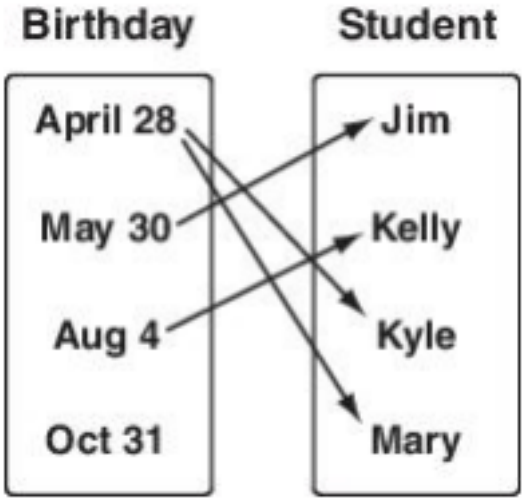
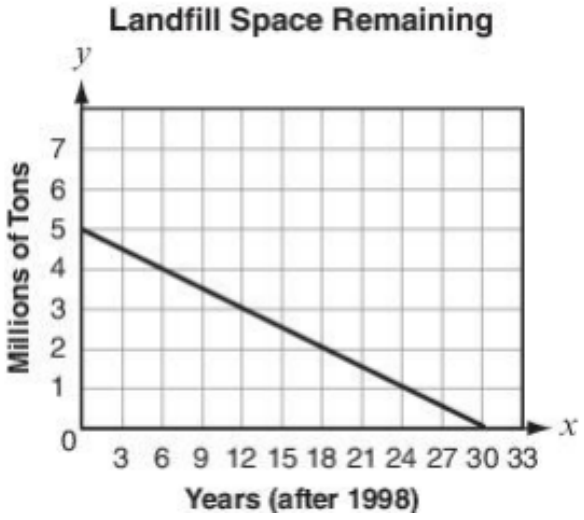
identify the domain of a function given an graph, in algebraic notation.		A section of a parabola is graphed below.  Which inequality describes the domain of this function?
use the vertical line test to tell if a relation is a function from a graph.		Is this a function? 

I can . . .	Notebook Pages Artifacts	Sample Question
use a mapping diagram to tell if a relation is a function.		Is this a function? 
tell is a relation is a function from a real world situation.		The coach of a basketball team gathered data on each player's height, in inches, and shoe size. He organized the data using ordered pairs in the form (height, shoe size). Is this relation a function? Why or why not?
evaluate a function in a real-world situation.		The cost of a long distance phone call is 30 cents for the first minute and 5 cents for each additional minute. What is the cost of a 4-minute long distance phone call?
identify the domain of a function given an graph, in words.	Describe the domain and range of this graph in words. —>	According to a city's Waste Management Authority, the amount of space available for waste disposal at the local landfill is decreasing at a constant rate. The graph models the amount of space remaining after 1998. 

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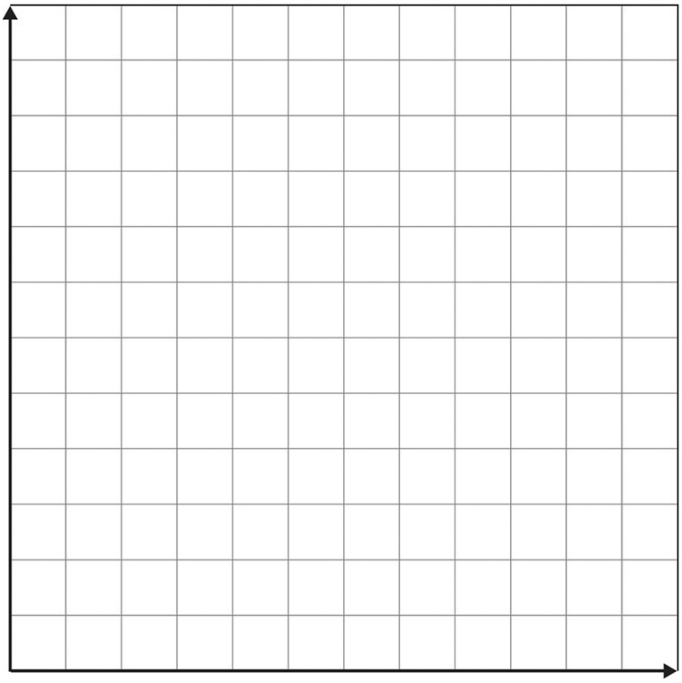
given a set of inputs and outputs, graph a function.		The tax on a $12 item is $0.60. The tax on a $4 item is $0.20. Graph this tax rate. 

Tips for Taking a Math Test

- First look over the entire test. You'll get a sense of its length. Try to identify those problems you definitely know how to do right away, and those you expect to have to think about.
- Do the problems in the order that suits you! Start with the problems that you know for sure you can do. This builds confidence and means you don't miss any sure points just because you run out of time. Then try the problems you think you can figure out; then finally try the ones you are least sure about.
- Work by the clock. On a 50 minute, 100 point test, you have about 5 minutes for a 10 point question. Starting with the easy questions will probably put you ahead of the clock. Do not spend 20 minutes on a problem which will yield few or no points when there are other problems still to try.
- Never waste time erasing! Just draw a line through the work you want ignored and move on. Not only does erasing waste precious time, but you may discover later that you erased something useful (and/or maybe worth partial credit if you cannot complete the problem).
- In a multiple-step problem outline the steps before actually working the problem.
- Don't give up on a several-part problem just because you can't do the first part. Attempt the other part.
- Make sure you read the questions carefully, and do all parts of each problem.
- Verify your answers - does each answer make sense given the context of the problem?
- If you finish early, check every problem (that means rework everything from scratch).

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