

Part of a U.S. Postal Service rate sheet appears in Display 6.23. It shows the postage rates for standard size, first-class letters. This table defines a function, which we shall call p .



1. What is the domain of p ?
2. Find $p(4)$, $p(4.2)$, and $p(8.75)$.
3. Make a graph of the function p .
4. Draw the straight line determined by the pattern of the whole ounce rates, then answer these questions about it.
 - (a) Write an equation for this line, treating it as a function called s . That is, write an equation in the form " $s(x) = \dots$ "
 - (b) If s were the postage function, what would it cost to send something that weighed absolutely nothing (if such a thing existed)?



FIRST-CLASS MAIL	
SINGLE-PIECE RATES:	
1st ounce.....	\$0.37
Each additional ounce.....	0.23
Weight not over (oz.)	
1.....	\$0.37*
2.....	0.60
3.....	0.83
4.....	1.06
5.....	1.29
6.....	1.52
7.....	\$1.75
8.....	1.98
9.....	2.21
10.....	2.44
11.....	2.67
12.....	2.90
13.....	3.13
OVER 13 OUNCES, SEE PRIORITY MAIL	
*Nonstandard Size: An additional \$0.12 is required if 1 ounce or less and (a) over any of these dimensions: 11 1/2" long, 6 1/8" high, 1/4" thick; or (b) the length divided by the height is less than 1.3 or more than 2.5.	

Display 6.23