

Jan 30-4:12 PM

## Practice

The table shows the masses, $m$ grams, of different numbers of identical marbles, $n$.


## Connect

Definitions:

INDEPENDENT VARIABLE - In a table of values this would be the first column. This is also set 1 in an ordered pair.
DEPENDENT VARIABLE - In a table of values this would be in the second column. In an ordered pair this would be the second set


Jan 30-4:17 PM
Practice Describing Functions YOU TRY!

The table shows the costs of student bus tickets, $C$ dollars, for different numbers of tickets, $n$.
a) Why is the relation Number of Tickets, Cost, $C$ also a function?
 $n$
b) Identify the independent and dependent variables

Write the domain and range for the relation


Equations and functions

| Equations | Parts of an Equation |
| :---: | :---: |
| $y=3 x+2$ | Independent Variable $x$ |
| Sloge $y$-intereet ferm | Dependent Variable $y$ |
|  | Rate of Change 3 (slope) |
|  | Constant 2 stantry |

## Connect

 Definitions:Equations and functions

Functions
$f(x)=3 x+2$

Parts of an Equation
Independent Variable $x$
Dependent Variable $f(x)$

Rate of Change 3
Constant 2

Jan 30-4:17 PM


Given the following equation

$$
c=25 n+1000
$$

a) Write the equation in function notation:

$$
C(n)=25 n+1000
$$

b) Determine the value of $C(100)$
$C(100)=25(100)+1000$
$=2500+1000$

- 3500
c) Determine the value of $d$ when $C(n)=5000$



## Textbook Questions:

Page 271 \# 6, 7, 9
Page 272 \# 14, 15, 16

