

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Pd: \_\_\_\_\_

## Functions Lesson 1 & 2 Review Worksheet

### Four Representations of a Function

#### In Context & Symbolic

- A new YouTube video goes viral and receives 5460 views the first day that it's posted. Every day after it gets 4300 more views. This can be represented by the function  $V(d) = 4300d + 5460$ .
  - In context, what does  $d$  represent?
  - What is the value of  $V(8)$  and what does this value mean in context?
  - After how many days will the video receive at least 50,000 views? Show your work!

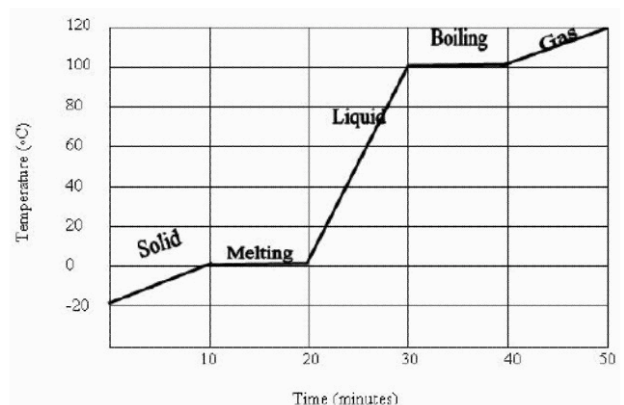
#### Tables

- To the right is a table showing the number of miles a hiker has walked,  $M(h)$ , after  $h$  amount of hours.
  - What is the value of  $M(4)$ ? And what does this value mean in context?
  - For what value(s) of  $h$  did the hiker walk 8 miles? Be sure to include units.

$d$	$H(d)$
3	4
4	6
5	8
6	10
7	12
8	14

#### Graphs

- The graph shown below reflects the temperature of water  $T(m)$  after  $m$  minutes.
  - What is the value of  $T(30)$ ? And what does it mean in context?
  - Between what values of  $m$  does  $T(m)$  change the most?



### Verifying Solutions to a Function

4. Is  $(-2, 7)$  a solution for the function  $F(x) = 3x + 12$ ? Show all work.

5. Is  $(-4, 5)$  a solution for the function  $F(x) = -2x - 3$ ?

### Determining if a relationship is a Function

1. Is the following table a function or not? Explain.

X	F(x)
-2	1
0	6
3	12
3	15

2. Is the following graph a function or not? Explain.

