

Name _____

2-1 Lesson Master

Questions on SPUR Objectives
See Student Edition pages 142–145 for objectives.

VOCABULARY

1. Refer to the table below.

<i>k</i>	-2	-1.5	-1	-0.5	0	0.5	1	1.5	2	2.5
<i>t</i>	8	12	7	8	14	6	1	2	6	3

- a. Is *k* a function of *t*? If so, name the independent and dependent variables.
If not, explain why not. _____

- b. Is *t* a function of *k*? If so, name the independent and dependent variables.
If not, explain why not. _____

2. Suppose *s* is a function mapping the students in Ms. Beauregard’s class onto their assigned seats.
Is *s* a discrete function? Why or why not? _____

PROPERTIES Objective C

In 3–5, a description of a function is given. Give the domain and range of the function.

3. the function mapping the edge length of a cube onto the cube’s volume

4. the function mapping the weight of a watermelon onto its price, when watermelon costs \$2 a pound, rounded to the nearest half-pound

5. the function mapping Kaylee’s age in years to the number of guests at her birthday party that year

In 6 and 7, an equation for a function is given. Give the domain of the function in interval notation.

6. $f(x) = \frac{2}{x^2 - 16}$ _____
7. $p(x) = |x + 7|$ _____

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