

Name \_\_\_\_\_

# 1-5A Lesson Master

## Questions on SPUR Objectives

See Student Edition pages 66–69 for objectives.

### PROPERTIES Objective G

In 1 and 2, determine whether  $y$  is a function of  $x$ . Write yes or no.

1.  $\{(2006, 154), (2007, 182), (2008, 193), (2009, 178), (2010, 182)\}$  \_\_\_\_\_

2. 

$x$	7	6	5	4	3	4	5	6	7
$y$	-3	-2	-1	0	1	2	3	4	5

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### PROPERTIES Objective H

3. Give the domain and range of the function represented by the table at the right.

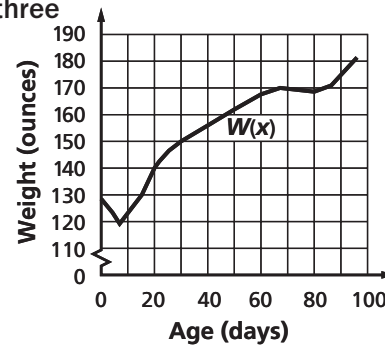
$x$	0	0.1	0.2	0.6	1.2
$y$	-3	-3	-3	-3	-3

\_\_\_\_\_

In 4 and 5,  $W(x)$  gives the weight at age  $x$  of a baby during the first three months of her life.

4. Give the range of this function.  
\_\_\_\_\_

5. Estimate  $W(50)$ . Explain what that means in real life.  
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### REPRESENTATIONS Objective L

6. When anthropologists find a leg bone (femur), they can estimate how tall the person was. An equation for an adult male is  $h(x) = 2.59x + 66.4$ , where  $x$  is the length of the femur in cm and  $h(x)$  is the height in cm.

$x$	30	32	34	36	38	40
$h(x)$						

- a. Use your CAS to complete the table above.
- b. Set your table increment to 0.5 and use the table to estimate the length of a femur of an adult male 162 cm tall. \_\_\_\_\_

7. Use your CAS to generate a table for  $f(x) = \frac{x^2}{2x - 6}$ . Set your table to start at  $x = 0$  and to generate values in increments of 1. What value of  $x$  is not in the domain of  $f$ ? \_\_\_\_\_