

Name _____

1-4B Lesson Master

Questions on SPUR Objectives

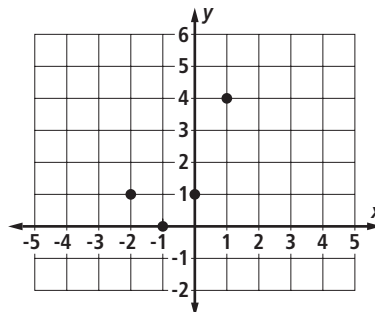
See pages 60–63 for objectives.

VOCABULARY

- Express the set of all real numbers less than -2 in set builder notation. _____
- Express the set of integers greater than 0 and less than 5 in roster notation. _____

REPRESENTATIONS Objectives J, K, L

In 3–6, use the graph at the right. The graph represents values of an expression.



- Give the coordinates of points on the graph.

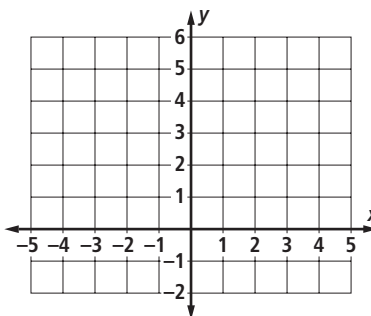
- What is the value of the expression when x is 0 ? _____
- For what value(s) of x is the value of the expression equal to 1 ? _____
- Veronica's shoes are 2 sizes larger than Natalia's. Let $x =$ Veronica's shoe size and $y =$ Natalia's shoe size. Fill in the chart with the possible shoe sizes.

Veronica's shoe size, x	Natalia's shoe size, y	Ordered Pair (x, y)
7		
8		
9		
10		

Express Natalia's shoe size using x . _____

- Make a table and scatterplot for $x^2 + 1$ when $x = -2, -1, 0,$ and 1 .

x	$x^2 + 1$



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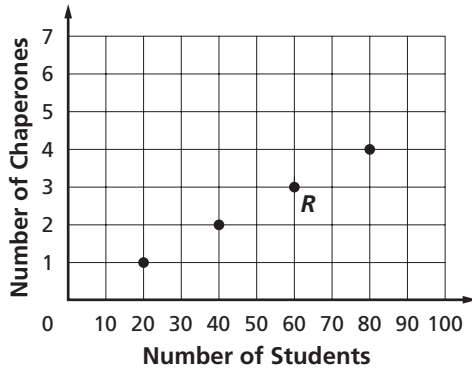
REPRESENTATIONS Objectives J, K

In 8–10, *Multiple Choice*. Which is the most reasonable domain for the variable?

- A set of positive real numbers
- B set of real numbers
- C set of integers

- 8. c = the number of yards gained or lost in a football game _____
- 9. t = the temperature outside today _____
- 10. w = your height on each birthday _____

In 11–13, use the graph below. The graph shows the number of chaperones needed for n students going on a field trip.



- 11. Give the coordinates of R . _____
- 12. Describe the situation that corresponds to R , giving the number of students and the number of chaperones needed.

- 13. Explain why the domain of n is the set of positive integers.

In 14 and 15, consider these two situations.

- (1) A bus ride to the airport costs \$11 plus \$2 for every piece of luggage. Let x = the number of pieces of luggage.
- (2) At an Internet café, the cost to use a computer is \$10 for the first 30 minutes and then \$0.50 for each minute after that. Let x = the number of minutes after the first 30 minutes.

- 14. For which situation does it make sense to have an x value of $32\frac{1}{2}$? _____
- 15. Find the cost of the situation you chose in Question 14. _____

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