Lesson 9 Skills Practice

Direct Variation

Determine whether each linear function is a direct variation. If so, state the constant of proportionality.

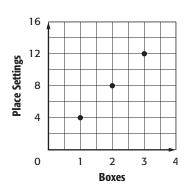
yes; 4

2.	Price, x	\$5	\$8	\$11	\$14
	Tax, y	\$0.50	\$0.80	\$1.10	\$1.40

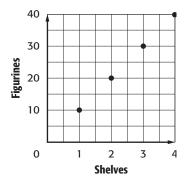
yes; $\frac{1}{10}$

yes; $\frac{1}{3}$

4. DISHES The number of place settings of dishes varies directly with the number of boxes. How many place settings are in each box? **4**



5. FIGURINES Kentish is arranging figurines on shelves. The number of figurines varies directly with the number of shelves. What is the constant of proportionality? **10**



- **6. CAT FOOD** Loretta paid \$6.70 for 5 cans of cat food and \$10.72 for 8 cans of cat food. How much did 1 can of cat food cost? **\$1.34**
- **7. PILLOWS** You need 2 yards of fabric to cover 3 pillows and 6 yards to cover 9 pillows. How much fabric do you need to cover 15 pillows? **10 yards**
- **8. READING** The number of pages read varies directly as the number of minutes. If you can read 20 pages in 45 minutes, how many pages can you read in 18 minutes? **8**