## **Chapter 3 Practice Test**

SCORE \_\_\_\_

Write the letter for the correct answer in the blank at the right of each question.

1. What is the slope (grade) of a road that rises 6 feet for every horizontal change

of 100 feet? A = 100 = 6 = 2

2. What is the constant rate of change between the two quantities in the

	$x_{i}$	Xy		
Time (x)	15	30	45	60
Number of Pages Read (y)	10	20	30	40

 $M = \frac{x_2 - y_1}{x_2 - x_1} = \frac{20 - 70}{30 - 15} = \frac{10}{30} = \frac{2}{3}$ 

YEAX

3. What is the slope of the line that passes through the points E(-1, 4) and F(2, 6)?

 $M = \frac{G - 4}{Z - (-1)} = \frac{2}{Z}$ 

3. m=2/3

4. 7 10.15

4. The cost of nails varies directly with the number of pounds bought. If 4 pounds of nails cost \$11.60, what is the cost of 3.5 pounds?

11.60 = (+)(4) 4 = 2.90  $y = (2.9) \times (3.5) = 90.15$ 

5. What are the slope and y-intercept for the graph of y - 4x =

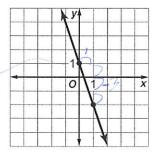
V=4x-7 5=-Z

Y-4x=-Z Y=mx+b +4x +4y m=4

5.6=-7

**6.** What is the equation in slope-intercept form for the graph shown?

Y= MX+b Y=(-3)x+(1) 6=1



M=-3 こしろ

6. Y=-3x+)

7. What are the x- and y-intercepts for the graph of -3x + 5y = -15?

 $\frac{x-in+(y=0)}{-3x+5(0)=-15}$   $\frac{y=in+(x=0)}{-3(0)+5y=-15}$   $\frac{-3x=-15}{-3}$   $\frac{5}{3}$ 

(-3,0) 7. (0,-3)

NAME	DATE	PERIOD
<b>Chapter 3 Practice Test</b>	(continued)	SCORE
8 At store A pencils are sold individually. The co-	st v of r pencils is	6=0

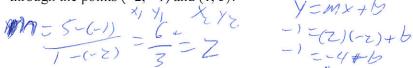
**8.** At store A, pencils are sold individually. The cost y of x pencils is represented by the equation y = 0.55x. The costs of pencils at store B are shown in the table. 06

Number of Pencils (x)	6	12	18	24
Cost (y)	\$3.06	\$6.12	\$9.18	\$12.24

Which of the following statements is true?

- F. The pencils at store A cost more.
- G. The pencils at store A cost \$0.27 each.
- **H.** The pencils at store B cost \$0.30 each.
- **I.** The pencils at store B cost more.

- 9. What is the equation in slope-intercept form for the line that passes through the points (-2, -1) and (1, 5)?



10. What is the solution of the system of equations? b = 3

$$y - 2x = -6$$

$$y - 4x = 0$$

$$y - 4x = 0$$

$$y - 4x = 0$$

what is the solution of the y-2x=-6 y-2x=-6 y-4x=0 y-4x=0

11. Theo is renting two kinds of tables for his party. One type of table seats 4 people and the other seats 6 people. If 36 people will be at his party and he rents 7 tables, how many of each type of table does he rent?



12. Geneva is saving for a new dress. She already has \$20 saved and intends to save \$7 each week. The equation for the amount of money y she has saved is y = 7x + 20, where x is the number of weeks. What do the slope and y-intercept represent?

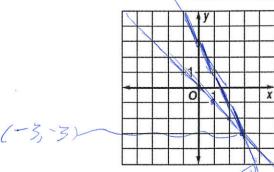
5 - 20 sound

13. Solve the system by graphing.

$$y = -2x + 3$$

$$y = -x - 1$$

4x+6y=36 4x+6(7-x)=35



Course 3 • Chapter 3 Equations in Two Variables