			DA	TE	PERIC	D
Test, Form 3A					SCOR	E
1. Juanita is bringing the snacks for her daughter's soccer team. Each girl on the team will eat $\frac{1}{3}$ of an orange and drink one serving of juice or $\frac{1}{9}$ of the amount in a bottle. How many oranges and how many juice bottles will she need for all 18 girls?					1.	6 oranges, 2 bottles of juice
 The top of Angie's ladder 22 feet above the ground 5 feet from the house, with 	r is restir l. If the b hat is the	ng again base of th e slope o	st the s ne ladde f the lao	ide of her house er is Ider?	2.	<u>22</u> 5
3. The framing gallery can solve a direct variation of can expect to frame in a	frame 4 equation $6\frac{1}{2}$ hour	pictures to find h shift.	per hou now man	ur. Write and ny pictures they	3.	y = 4x; 26 pictures
4. Store A is offering four by nail polish at Store B ar the nail polish varies dim which store does the nail	oottles of e shown ectly wit l polish c	nail poli in the ta h the nu cost more	ish for \$ able. Ass amber o e? Expla	515. The costs for sume the cost for f bottles. At ain.	4.	Store A; Store A: \$3.75 per bottle; Store B \$3.50 per bottl \$3.75 > \$3.50
Number of Bottles	2	4	6			
5. State the slope and y-int -8x + y = -12.	ercept fo	or the gra	aph of		s y 5. 7	slope: 8, ⁄-intercept: -12
6. Write an equation in slo line shown.	pe-interc	ept form	1 for the	graph of the	6	y=-2x-3
7. An albatross is flying at descending at a rate of 7 height of the bird <i>y</i> is <i>y</i> seconds in descent. What	a height '3 feet pe = 300 – t do the s	of 300 f or second 73x, whe slope and	eet and I. The ecercian ere x is d y-inte	slowly quation for the the number of rcept represent?	s c y 7. s	slope: rate of lescent, r-intercept: starting

bird

Test, Form 3A (continued)

- **8.** State the *x* and *y*-intercepts for the graph of -2y 5x = -20.
- **9.** The table shows the items and their individual prices that Lakasha brought to donate for a charity. Altogether, she spent \$420. This is represented by the function 20x + 70y = 420.

	Hats	Coats
Cost (\$)	\$20	\$70
Amount Bought	x	у

- **a.** Graph the function.
- **b.** Interpret the *x* and *y*-intercepts.
- 10. Solve the system of equations by graphing.

y = 3x - 2x + y = 6

- **11.** Logan asked his 20 coworkers whether they own a car or a truck. There were 6 more car owners than truck owners.
 - **a.** Write a system of equations that can be used to find out how many people own a car and how many people own a truck.
 - **b.** Solve the system.
- **12.** Isaiah bought a total of 32 pieces of candy. He bought 3 times as many soft pieces of candy as he did hard pieces of candy.
 - **a.** Write a system of equations that represents the number of pieces of candy Isaiah bought.
 - **b.** Solve the system.
 - **c.** Interpret the solution.



- x-intercept: 4,
- 8. y-intercept: 10







13 car owners, 11b.⁷ truck owners

- $12a.\frac{s+h=32}{s=3h}$
- 12b. s = 24, h = 812c. Isaiah bought 24 soft pieces of candy and 8 hard pieces of candy.

NAME