## Test, Form 3A

SCORE

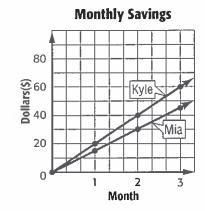
1. Which size bag of cat food shown in the

	table has	the lowest	unit price	′ .	
_	\$ 5.49	H.22875	\$8.00	\$.Z	
	2402	102	40		
				'	

Find the	Unit Rate of 1
Size (oz)	Cost (\$)
24	5.49
40	8.00
64	15.99
15.99	2498

The 400z is cheapest per ounce.

2. The graph shows the savings of Mia and Kyle. What does the slope of each line. represent?



The Slope shows the rate of # # # Dollars per month
Time
"How much each person
saves per month

3. Cyclists were  $\frac{3}{5}$  finished with their ride when they reached the 15-kilometer mark.

How long was their ride?

Set this up as equivalent  $\frac{3}{5} = \frac{15}{\text{total}}$ (cross multiply  $\frac{3}{5} = 75$ 3×total = 3x

Set this up as equivalent / ratios.

4. A grocery store sells 6 bottles of water for \$4 and 18 bottles of water for \$10. Is the cost of the water proportional to the number sold? Explain.

Solve each proportion.

$$6. \underbrace{\begin{array}{c} 18.2 \\ j \end{array}}_{16} = \underbrace{\begin{array}{c} 4 \\ 16 \end{array}}_{16}$$

6. 
$$j = 72.8$$

$$\frac{3V}{3} = 76.05$$
  $V = 25.35$ 

8. When diving, a hummingbird can reach a speed of 40 miles per hour. What is this speed in feet per second? Round to the nearest hundredth if necessary.

## Test, Form 3A (continued)

9. Find the rate of change from the table.

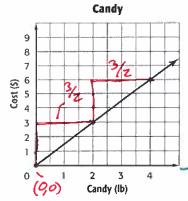
Find the Change each pt;

SCORE 7.5° per hour

	Temperature (°)	Temperature (°)
1	2	75
1	4	80
6	6	85

So the change would be 50 = 2.50

10. Does the graph show a proportional relationship? Explain.



11. If it takes the Ramirez family 3 days to travel 1,560 miles, how many days will it take them to travel 3,640 miles?

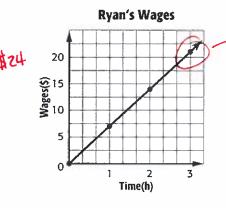
12. Janelle can get a 24-pack of bottled water for \$6.80. How much would Janelle have to pay for a 12-pack of bottled water if the ratios are proportional?

IT 12 is half of 24 so, 6:80

13. Find y when x = 9 if y varies directly as the square of x, and y = 245 when x = 7.

14. Jaime and Ryan work at the grocery store. The wages earned for the weekend are shown in the table and graph. Who gets paid more per hour? Explain.

Jaime'	s Wages	
Time (h)	Wages (\$)	
3	24	1
4	32	1
5	40	



Less than