## CRYPTIC QUIZ

1. What should the JOLLY GREEN GIANT receive?

 $\overline{6} \ \overline{5} \ \overline{18} \ \overline{11} \ \overline{16} \ \overline{15} \ \overline{52} \ \overline{18} \ \overline{70} \ \overline{2} \ \overline{80} \ \overline{18} \ \overline{9} \ \overline{12} \ \overline{13} \ \overline{80} \ \overline{20} \ \overline{30} \ \overline{1} \ \overline{18}$ 

2. Why did it take the GOAT more than 3 hours to finish a 20-page book?

5 18 21 8 9 12 16 6 24 4 18 20 3 60 5 10 16 7 20 3

Solve each proportion and find your answer in the code. Each time the answer appears, write the letter of the exercise above it.

- $\bigcirc \bigcirc \frac{2}{5} = \frac{12}{n}$

 $\bigcirc \frac{6}{2} = \frac{21}{n}$ 

- $\bigcirc \frac{10}{4} = \frac{n}{6}$
- $\bigcirc Y \frac{5}{15} = \frac{n}{9}$

- $\bigcirc \bigcirc \frac{2}{n} = \frac{5}{25}$

- $\sqrt{\frac{n}{6}} = \frac{6}{9}$
- $H) \frac{n}{2} = \frac{50}{20}$

- $\mathbb{R} \frac{24}{6} = \frac{n}{5}$

## What Happened When There Was a Kidnapping at Bizarre Middle School?

Write each ratio in simplest form, then find your answer at the bottom of the page. Write the letter of the exercise in the box above the answer.

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(F	<del>(</del> ) s	squa	res	to ci	rcle	S	(T	) S	tars	to a	ll fig	ures	3										
(1	<u>)</u> 8	Stars	to c	circle	es		Œ	) s	quai	res t	o al	l figu	ıres			¥	7		$\star$	7	K	<b>★</b>	i
11.	II. A TV screen is 15 in. high and 20 in. wide. Write each ratio.																						
(F	<del>1</del> ) H	Heigl	nt to	wid	th		A	) W	/idth	to h	neigl	ht											
111		maga rite e				grap	h is	24 (	cm le	ong	and	16	cm \	wide	).					24 <b>T</b>	4 cm	<u> </u>	
(E	<u> </u>	_eng	th to	wic	dth															2 ( 2 (	$\widetilde{\mathbb{O}}$		
F	ر آ	Vidtl	n to	leng	jth											16	cm		(	1		i.)	
īv	IV. There are 30 students in a class, including 16 boys. Write each ratio.																						
(F	<del>1</del> ) (	Girls	to b	oys			(R	) в	oys	to g	irls												
E	<b>)</b>	Girls	to a	all st	udei	nts	(I	) в	oys	to a	ll stı	uder	nts										
V. A fire-breathing swamp monster is 36 feet tall. When last observed, his shadow was 40 feet long. Write each ratio.																							
(-	T Height of monster to length of shadow																						
W Length of shadow to height of monster																							
VI. Count the number of teeth on each gear. Then write each ratio.																							
(	© Teeth on Gear X to teeth on Gear Y																						
(	(U) Teeth on Gear Y to teeth on Gear Z																						
	K)	Teetl	า on	Ge	ar X	to to	eeth	on	Gea	ır Z						Y	27		7	(\frac{1}{2}	1	沙	1
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	5	6	7	2	9	5	4	1	7	1	8	5	10	7	2	3	7	3	8	5	8	4	2

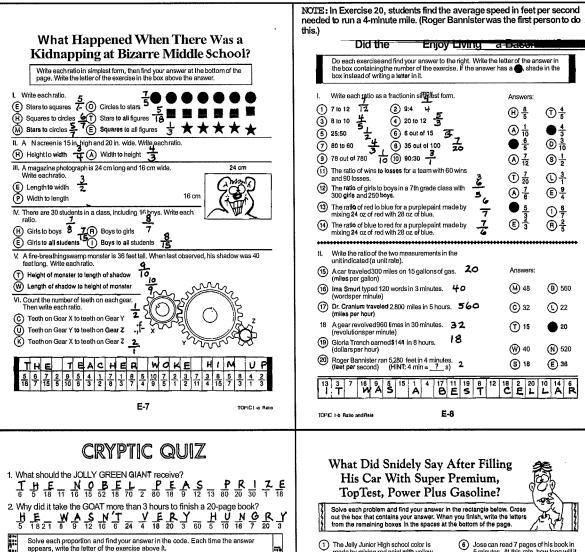
15 5 10 6

3

8 3

4

9 5 1 2 11 4 15



Enjoy Living a Base Do each exerciseand find your answer to the right. Write the letter of the answer in the box containingthe number of the exercise, if the answer has a , shade in the box instead of writing a letter in it. Write each ratio as a fraction in simplest form. 1) 71012 12 2 9:4 4 H) # T 4 3 8 to 10 4 4 20 to 12 3 \$\frac{1}{3}\$ 8 to 10 5 4 6 6 out of 15 3 7 7 8 out of 780 7 10 90:30 7 7 10 90:30 7 7 10 90:30 7 10 90:3 A 10  $\bullet \frac{4}{3}$ ⊕ å A 7 3 ½ The ratio of wins to losses for a team with 60 wins and 90 losses. ①  $\frac{7}{20}$ (L) 쿠 (12) The ratio of girls to boys in a 7th grade class with 300 girls and 250 boys.  $\bigcirc \frac{7}{6}$ E 3/4 (13) The ratio of red to blue for a purplepaint made by mixing 24 oz of red with 28 oz of blue. **●** <u>5</u> ① <del>5</del> (14) The ratio of blue to red for a purple paint made by mixing 24 oz of red with 28 oz of blue. € 3 围音 Write the ratio of the two measurements in the unit indicated (a unit rate). (15) Acar traveled300 miles on 15 gallons of gas. (miles per gallon) Answers: (16) Ima Smurt typed 120 words in 3 minutes. 40 (wordsper minute) (M) 48 **B** 560 17 Dr. Cranium traveled 2,800 miles in 5 hours. 560 © 32 (L) 22 (miles per hour) 18 A gear revolved 960 times in 30 minutes. 32 (revolutionsper minute) T) 15 **2**0 (19) Gloria Trench earned \$144 in 8 hours. (dollarsper hour) (W) 40 N 520 Roger Bannister ran 5,280 feet in 4 minutes. (leet per second) (HINT: 4 min = ? s) 2 S 18 € 36 13 3 7 16 9 5 15 1 T W A S A 4 17 11 19 8 12 BEST 18 2 20 10 14 6 CELLAR

Solve each proportion and find your answer in the code. Each time the answer appears, write the letter of the exercise above it. ① = 12 30  $\bigcirc \frac{3}{4} = \frac{9}{n}$  12 (a)  $\frac{6}{2} = \frac{21}{6}$  $\bigcirc \frac{10}{4} = \frac{n}{6}$  $\bigcirc \frac{5}{15} = \frac{n}{9} = 3$ T 12 = 7 6  $\bigcirc A = \frac{33}{7} = \frac{11}{3} = 9$  $(1) \frac{49}{n} = \frac{7}{10}$  70  $2 \frac{\pi}{4} = \frac{18}{72}$  $\frac{8}{12} = \frac{12}{n}$  IS  $\mathbb{R} = \frac{24}{6} = \frac{R}{5} = \frac{20}{5}$  $P = \frac{24}{n} = \frac{40}{100} 80$ 

## What Did Snidely Say After Filling His Car With Super Premium, TopTest, Power Plus Gasoline?

E-8

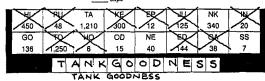
Solve each problem and find your answer in the rectangle below. Cross out the box that contains your answer. When you finish, write the letters from the remaining boxes in the spaces at the bottom of the page.

1 The Jelly Junior High school color is made by mixing red paint with yellow paint. The ratio of red to yellow is 3 to 5. How much red paint should be mixed with 20 oz of yellow?

TOPIC 1-b Ratio and Rate

- (2) The Lawn Order lawnmower factory can produce 12 lawnmowers in 8 hours. How many hours will it take the factory to produce 30 lawnmowers?
- 3 An object that weighs 10 lb on Earth would weigh only 4 lb on Mars If you weigh 95 to on Earth, hew middle would you weigh on Mars? 38 to
- The ratio of orange juice to pineapple juice in Tropical Treatpunch is 4 to 3. Bill has 64 oz of orange juice How much pineapple juice does be ged?
- (5) A cookie recipe for 60 cookies calls for 4 cups of flour. How much flour is needed to make 90 cookies? cups

- Jose can read 7 pages of his book in 5 minutes. At this rate, how long will it take him to read the entire 175 page book?
- (7) While exercising. Julie found that her heart was beating 12 times every 5 seconds. How many times was it beating per minute (60 seconds)?
- (8) If there are 1.200 calories in 8 oz of hot ludge, how many calories are in 3 oz of hot fudge?
- (9) At a certain college, the ratio of men to women is 6 to 5. If there are 1.500 men, how many women are there?
- (0) One of the world's largest stained-glass windows is at Kennedy International Airport in New York. It is a rectangle with a height to length ratio of 2 to 25. If the windo feet high, how long is it?



E-9

TOPIC 1-c: Solving Proportions