Unit 5: Home Practice

Part 1) Triangle Flash Cards: Last Six Facts

Study for the quiz on the multiplication facts for the last six facts. Take home your Triangle Flash Cards: Last Six Facts and your list of facts you need to study.

Ask a family member to choose one flash card at a time. Your helper should cover the corner containing the highest number. This number will be the answer to a multiplication fact. Multiply the two uncovered numbers.

Your teacher will tell you when the quiz on the last six facts will be.

Part 2 Arithmetic Review

Solve the following problems using paper and pencil or mental math. Estimate to see if your answers are reasonable.

A.
$$49 \times 7 =$$
 B. $8326 - 5997 =$ **C.** $2008 + 1992 =$

D.
$$2398 - 1569 =$$
 E. $65 \times 9 =$ **F.** $436 + 248 =$

G. Choose a problem and show how to solve it using mental math.

H. Show or tell your estimation strategy for Question E.

I

Part 3 Factor Trees and Exponents

Write each of the following numbers as a product of prime numbers. If you need more room to show your work, use a separate sheet of paper.

1. 52 **2.** 85 **3.** 224

4. Write each of the following using exponents. Then, find each product.

A. $4 \times 4 \times 2$ **B.** $5 \times 2 \times 5$ **C.** $2 \times 3 \times 2 \times 2$

Part 4 What's Missing?

The letter *n* stands for a missing number. What number must *n* be in each number sentence to make the sentence true?

A. 750 + 150 = <i>n</i>	B. 839 + 102 = <i>n</i>	C. 1034 – 40 = <i>n</i>
D. 2 + <i>n</i> = 100	E. 16 – <i>n</i> = 8	F. <i>n</i> + 21 = 42
G. <i>n</i> − 25 = 50	H. 11 + <i>n</i> = 24	Ⅰ. 93 − <i>n</i> = 23
J. 70 – <i>n</i> = 40	K. 71 – <i>n</i> = 40	L. 15 – <i>n</i> = 9

M. Show or tell your strategy for solving Question G.

Part 5 Area and Perimeter

1. A. Find the area of the shape below in square centimeters.



B. Find the perimeter of the shape.

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	i i	i i	i i	i i	i i	i	I I
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1	1 I	I I	I	1 1	I.	I	I I
I.	I I	I I	I	1 1	1	I	I I

- 2. A. Draw a shape that has the same area but a smaller perimeter.
 - B. Write the perimeter of your shape in Question 2A.



D. Write the perimeter of your shape in Question 2C.



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Part 7 Bouncing Balls

A class experimented with 3 kinds of balls to find out which one bounced highest. They dropped each type of ball from the same height.

Т	В	<i>F</i> ounce Hei	/ ight (in cm	1)
Type of Ball	Trial 1	Trial 2	Trial 3	Median
Basketball	43	41	45	
Kickball	69	65	67	
Tennis Ball	52	51	51	

- 1. Find the median bounce height for each type of ball. Complete the table
- 2. What is the manipulated variable? Is it a categorical or numerical variable?
- 3. What is the responding variable? Is it a categorical or numerical variable?
- **4.** Think about these questions before you graph the median bounce height for each type of ball.
 - What variables will you put on the horizontal axis and vertical axis?
 - How will you scale and label the axes?
 - What type of graph is appropriate? A point graph or a bar graph?



Stu Tria	dy for the quiz on th ngle Flash Cards: La	e multiplic ast Six Fac	ation facts for the	e last six facts. Take hor f facts you need to stud	ne your y.
Ask the mul	a family member to corner containing the tiplication fact. Mult	choose o ne highest iply the tw	ne flash card at a number. This nur o uncovered nun	a time. Your helper shoul nber will be the answer nbers.	d cover to a
You	r teacher will tell yo	u when the	quiz on the last	six facts will be.	
P	art 2 Arithm	etic Re	eview		
Sol [®] to s	ve the following proceed if your answers	oblems us are reaso	ing paper and p mable.	encil or mental math.	Estimat
	A. 49 × 7 =	B.	8326 - 5997 =	C. 2008 + 1992	-
	D. 2398 - 1569	= E.	65 × 9 =	F. 436 + 248 =	
	G. Choose a pro	blem and s	show how to solv	ve it using mental math.	
				0	
	n. Snow or tell y	our esuma	llion strategy for	Question E.	

Teacher Guide - Page 1

Part 2. Arithmetic Review

Questions A–H (TG p. 1)

Α.	343	В.	2329
C.	4000	D.	829

- **E.** 585 **F.** 684
- **G.** Answer will vary. Possible response for A: $50 \times 7 = 350; 350 7 = 343$
- **H.** Strategies will vary. The product is less than 650 because $65 \times 10 = 650$.

Part 3. Factor Trees and Exponents

Questions 1–4 (TG p. 2)

I. $2 \times 2 \times 13 = 52$. Students might draw a factor tree as shown below.



2. $5 \times 17 = 85$. Students might draw a factor tree as shown below.



3. $2 \times 2 \times 2 \times 2 \times 2 \times 7 = 224$. Students might draw a factor tree as shown below.



4. A. $4^2 \times 2 = 32$ **B.** $5^2 \times 2 = 50$ **C.** $2^3 \times 3 = 24$

Part 4. What's Missing?

Que	stions A–L	. (TC	Эр. 2)		
Α.	900	В.	941	C.	994
D.	98	E.	8	F.	21
G.	75	Н.	13	I.	70
J.	30	K.	31	L.	6
	D				

M. Possible response: I think of quarters. $75\phi - 25\phi = 50\phi$.

52	2. 85	3. 224	
. Write each of	the following using expone	nts. Then, find each product.	
A. $4 \times 4 \times 2$	B. $5 \times 2 \times 5$	C. $2 \times 3 \times 2 \times 2$	
 150 + 150 = n 2 + n = 100 	E. 16 – <i>n</i> = 8	G. 1034 - 40 = <i>n</i> F. <i>n</i> + 21 = 42	
0. 2 + <i>n</i> = 100	E. 16 – <i>n</i> = 8	F. <i>n</i> + 21 = 42	Copyright @
I. 70 − <i>n</i> = 40	K. 71 – <i>n</i> = 40	L. 15 – <i>n</i> = 9	Kendall Hunt Publis
			thing Co

Teacher Guide - Page 2



Part 5. Area and Perimeter

Questions 1–2 (TG p. 3)

- I. A. 13 square centimeters
 - **B.** 20 centimeters
- **2. A.** Possible response:



B. Perimeters will vary: Example 2A is 16cm.



D. 28 centimeters





Teacher Guide - Page 4



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Part 7. Bouncing Balls

Questions 1–4 (TG p. 5)

- I. Basketball: 43, Kickball: 67, Tennis Ball: 51
- 2. Type of Ball, categorical
- **3.** Bounce Height, numerical



Compare the graphs in Part 7 and DPP item X. When both of the variables to be graphed are numerical, as in the 200-meter Backstroke graph in DPP item X, a point graph is often the appropriate way to represent the data. Since the values for both of these variables are numbers and since it makes sense to talk about values between the data points, such as 1969, 1970, etc., we can use points and lines. However, in Part 7, it does not make sense to talk about values between the values on the horizontal axis (basketball, kickball, and tennis ball). A bar graph is an appropriate type of graph for representing categorical data. The values (basketball, kickball, and tennis ball) on the graph in Part 7 can also be placed in any order on the graph unlike the numerical values on the horizontal axis in the graph in DPP item X.



