Date .

Midterm Test

Part 1

Solve each problem without a calculator. Use the Additions Strategies Menu, Subtraction Strategies Menu, and the Multidigit Multiplication Strategies Menu in the Student Guide Reference section.

1. Solve the followings problems using two different methods.

First Method	Second Method
A. 6010 - 5971 =	
B. 3694 + 8539 =	
C. 626 × 7 =	
D. 74 × 47 =	

E. Show or tell how you can use estimation to make sure your answer to Question 1D is reasonable.

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B. Show where Jacob got 1800 and 240.

- Name _____
 - 2. Jacob and Frank needed to solve 65 \times 34.
 - **A.** Jacob started the problem this way. Finish it using his method.
 - **C.** Frank started to use a rectangle to solve the same problem. Complete his strategy by filling in the blanks.



D. Compare Frank's and Jacob's methods. How are they alike? How are they different?

TG • Grade 5 • Unit 6 • Lesson 8

School Play

Name _

- **3.** Nine hundred nine people attended the school play on Friday night and 893 people saw it on Saturday night.
 - A. How many people saw the play on both nights?
 - **B.** Show or tell how to solve the problem using mental math.

- **4.** The school sold tickets for the play. Tickets for each adult cost \$4.00, tickets for students cost \$2.00. Preschoolers were able to attend the play free of charge. On Friday night, 682 tickets were sold to adults and 203 tickets were sold to students.
 - A. How many preschoolers attended the play on Friday night?
 - B. How much money did the school earn from ticket sales on Friday night?
- **5.** On Saturday night the school earned \$3248.00 and 893 people attended. They sold 746 adult tickets and there were 15 preschoolers who attended free of charge.
 - A. How many students attended the play on Saturday night?
 - B. How much money did the school earn from ticket sales to students?

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Part 2

You may use any of the tools you use in class. For example, you may use a ruler, calculator, fraction circle pieces, and pages in the *Student Guide* Reference section.

- 6. Mrs. Wells's classroom collected data on the number of buttons on their clothing. Show or tell how to find the median number of buttons in each group.
 - A. In one group Jerome had 4, Grace had 0, and Ana has 3 buttons.
 - **B.** In a group with six students, the number of buttons for each student was 7, 2, 5, 4, 2, and 0 buttons.

7. Here are the data for Mrs. Wells's whole class.

B Buttons	<i>N</i> Number of Students				
Buttons	Tallies	Total			
0	JHT IIII	9			
1	HH	5			
2		3			
3		3			
4		1			
5		2			
6		0			
7		1			
8		0			
9		3			

Number of Buttons

Name

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A. Make a graph of the data.

- **B.** How many students were in Mrs. Wells's room when the data were gathered?
- C. What was the most common number (mode) of buttons on this day?
- **D.** Mrs. Wells's class collected the data again on the same day after they put on their coats for recess. Mrs. Wells noticed that most students had buttons on their coats. Predict how you think the new graph will look. Where will the tallest bars be? Will the bars be taller or shorter than the first graph? Explain your thinking.

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The TIMS Candy Company is selling boxes of candy. The candy is boxed in triangular-shaped boxes. Each flavor of candy is in a different shape.



The cost for each piece of candy is based on its size. The Chocolate Mint costs \$1.00, so the Blueberry Crème is \$2.00.



B. What fraction of the Sampler Box is the Nut Cluster? How did you decide?

9. A. Nila wants to buy a Sampler Box with 2 Nut Clusters and 3 Chocolate Mints. Write a ratio to show the relationship between the number of Nut Clusters and the total number of candies in the box.

B. Write a ratio to show the relationship between the number of Chocolate Mints and the number of Nut Clusters in Nila's box.

C. The ratio for the number of Chocolate Mints to the total numbers of candies in the box is $\frac{3 \text{ Chocolate Mints}}{5 \text{ pieces of candy}}$. Write three equivalent ratios.

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- **10.** The Family Box of candy has four rows of candy rather than three. The candy is packed in a triangular-shaped box.
 - **A.** Draw a picture of the candy in your Family Box.



B. Find the cost of each row in your Family Box. Show your work.

C. Find the total cost of the Family Box. Explain how you solved this problem.

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- **11.** Complete the number sentences:
 - **A.** $\frac{2}{3} = \frac{?}{18}$ **B.** $\frac{7}{8} = \frac{?}{24}$ **C.** $\frac{2}{6} = \frac{7}{?}$
- 12. Solve each problem:
 - **A.** $\frac{7}{8} \frac{1}{2} =$ **B.** $\frac{3}{4} + \frac{1}{12} =$

C.
$$1 - \frac{3}{5} =$$
 D. $1\frac{5}{6} - \frac{2}{3} =$

E. Show or tell how you solved Question 12D.

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13. A. Lee Yah found a bunch of centimeter cubes. She stacked the cubes to make a rectangular prism. What is the volume of her shape?



B. Show or tell how you found your answer.

14. Lee Yah has 42 square centimeter cubes. She wants to build a rectangular prism using all the cubes. Sketch at least two different rectangular prisms Lee Yah could make. Label the length, width and height in each of your drawings.

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15. A. Plot and draw Shape ABCD and Shape WXYZ on the coordinate grid.



- **B.** Name the shape you made with points ABCD and describe its properties.
- **C.** Can both Shape ABCD and Shape WXYZ be classified as parallelograms? Why or why not?
- D. Is a square a rectangle? Why or why not?

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Name			Date	
Mid-Year Test Feedback Box	Yes	Yes, but	No, but	No
MPE1. Know the problem. I read the problem carefully. I know the questions to answer and what information is important. (Q# 3–5, 8–10, 13–15)				
MPE2. Find a strategy. I choose good tools and an efficient strategy for solving the problem. (Q# 3–5, 8–10, 13–14)				
MPE3. Check for reasonablenss. I look back at my solution to see if my answer makes sense. If it does not, I try again. (Q# 1E)				
MPE5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking. (Q# 2D, 3B, 7D, 8B, 10B–C, 12E, 13B)				
MPE6. Use labels. I use labels to show what numbers mean. (Q# 3–5, 8A, 9A–C, 10B–C, 13A, 14)				