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Teacher Guide

Mid-Year Test (TG pp. 1–11) **Questions 1–15**

I. Strategies may vary. Students must show the exact method. Two possible strategies are shown for each.

Α.	5971 + 9 = 5980	6010 - 10 = 6000
	5980 + 20 = 6000	6000 - 20 = 5980
	6000 + 10 - 6010	5980 – 9 – 5971

$$9 + 20 + 10 = 39 \qquad \qquad 10 + 20 + 9 = 39$$

B.
$$\begin{array}{cccc} 11 \\ 3694 \\ + 8593 \\ 12,287 \end{array}$$
 $\begin{array}{cccc} 3000 + & 600 + & 90 + 4 \\ + & 8000 + & 500 + & 90 + 3 \\ \hline 11,000 + & 1,100 + & 180 + 7 \end{array} = 12,287$

 $^{14}_{626}$

$$\begin{array}{cccc} \mathbf{C}. & 626 & & & & & & \\ & \frac{\times & 7}{4200} & & & \frac{\times & 7}{4382} \\ & & \frac{42}{4382} \end{array}$$

_ _

D.

2800 + 160 + 490 + 28 = 3478

E. I rounded 74 to 70 and 47 to 50 and then multiplied $70 \times 50 = 3500$. Since 3500 is close to 3478, I know my answer is reasonable.

Answer Key • Lesson 8: Mid-Year Test

Α.	65
	× 34
	1800
	240
	150
	20
	2210
	Α.

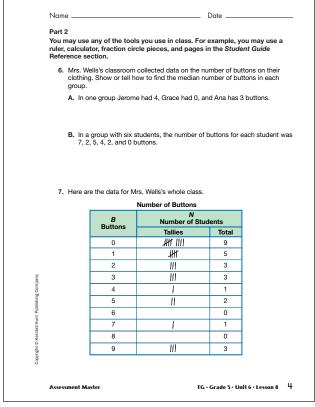
B. The 1800 came from multiplying $30 \times 60 = 1800$; the 240 is from multiplying $4 \times 60 = 240$.

C.		60	5
	30	30 × 60 = 1800	$30 \times 5 = 150$
	4	$4 \times 60 = 240$	$4 \times 5 = 20$
		1800 + 240 + 150	+20 = 2210

- **D.** In both methods you break apart the numbers and multiply to find partial products. In the rectangle method you show the problem using the area model to help you see where each number comes from.
- **3. A.** 1802
 - **B.** 893 + 7 = 900 900 + 909 = 1809 1809 - 7 = 1802
- **4. A.** 24 preschoolers
 - **B.** \$3134.00
- **5. A.** 132 students
 - **B.** \$264.00

Name	Date
School Play	
 Nine hundred nine people 893 people saw it on Satu 	e attended the school play on Friday night and urday night.
A. How many people saw	v the play on both nights?
B. Show or tell how to sol	live the problem using mental math.
for students cost \$2.00. P	r the play. Tickets for each adult cost \$4.00, tickets Preschoolers were able to attend the play free of 582 tickets were sold to adults and 203 tickets were
A. How many preschoole	ers attended the play on Friday night?
B. How much money did	the school earn from ticket sales on Friday night?
5 On Saturday pight the sch	nool earned \$3248.00 and 893 people attended.
	ts and there were 15 preschoolers who attended
A. How many students at	ttended the play on Saturday night?
B. How much money did	the school earn from ticket sales to students?
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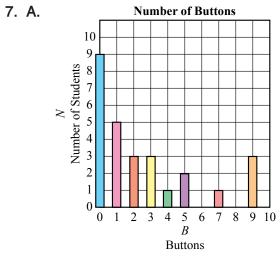


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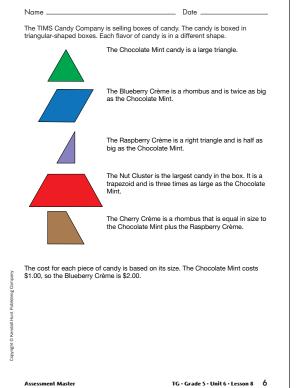
_ Date _ Name _ Name _ A. Make a graph of the data. Mint. B. How many students were in Mrs. Wells's room when the data were gathered' C. What was the most common number (mode) of buttons on this day? D. Mrs. Wells's class collected the data again on the same day after they put on their coats for recess. Mrs. Wells noticed that most students had buttons on their coats. Predict how you'd hink 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. 5 TG · Grade 5 · Unit 6 · Lesson 8 Assessment Master Assessment Master

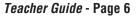


- **6. A.** 0, 3, 4; 3 is the median number
 - **B.** 2, 2, 4, 5, 7; 3 is the median number because it is between 2 and 4



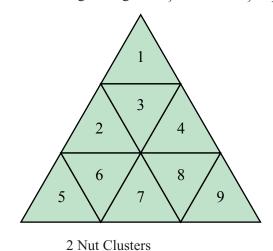
- **B.** 27 students
- C. zero buttons
- **D.** Answers may vary. The total number of buttons each child is wearing may go up, heightening the bars moving to the right.



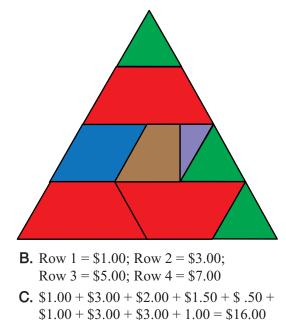


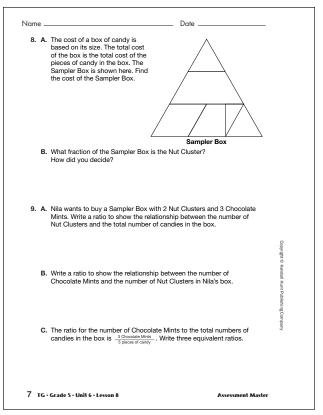
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- **8. A.** \$9.00
 - **B.** It is $\frac{1}{3}$ of the box. If you divide each of the shapes into large triangles it will be divided into 9 equal parts. The Nut Cluster is equal to 3 large triangles of $\frac{3}{9}$ of the box. $\frac{3}{9} = \frac{1}{3}$.

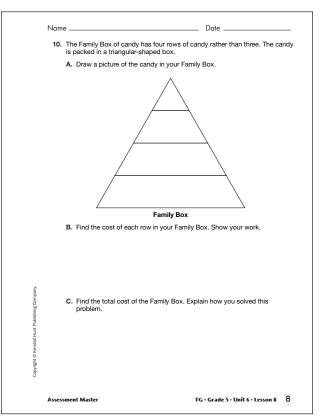


- **9. A.** 5 Total Pieces of Candy 3 Chocolate Mints
 - B. 2 Nut Clusters6 Chocolate Mints
 - C. 10 Pieces of Candy ; 9 Chocolate Mints 15 Pieces of Candy ;
 - 12 Chocolate Mints
 - 20 Pieces of Candy
- **10. A.** Answer may vary. One Possible response:

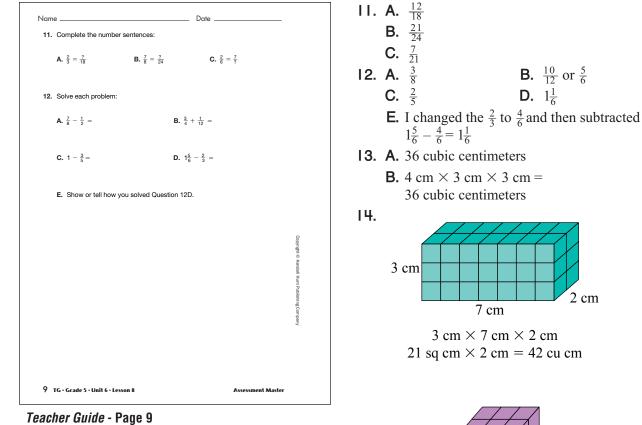


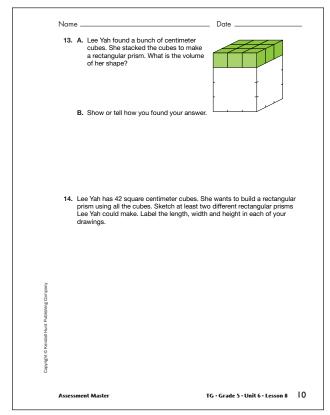


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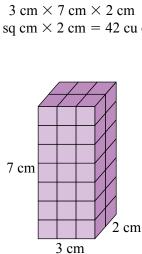


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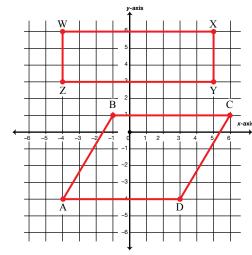


2 cm

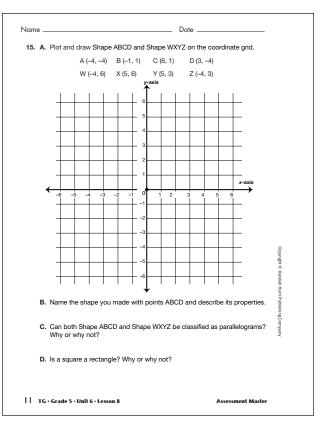
 $3 \text{ cm} \times 2 \text{ cm} \times 7 \text{ cm}$ $6 \text{ sq cm} \times 7 \text{ cm} = 42 \text{ cu cm}$

Answer Key • Lesson 8: Mid-Year Test

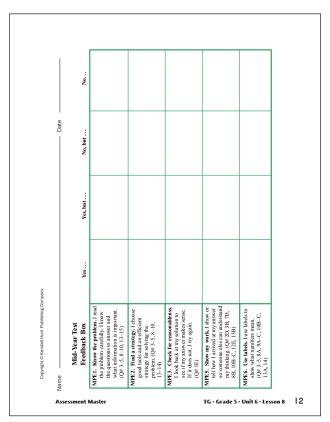




- **B.** The shape is a parallelogram. It has 4 sides, opposite sides are equal in length and are parallel.
- **C.** Yes, both shapes are parallelograms because both shapes have two pairs of parallel sides.
- **D.** Yes, a square is a rectangle. A rectangle has 4 right angles and a square has 4 right angles, so it is a rectangle.



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