

Spreadsheet Table

Fourth graders at Blue Farm Elementary School did a side-by-side blind taste test of some apples grown in Minnesota. They recorded data they collected for the number of students who chose each apple as their favorite in the spreadsheet table below.

	A	B	C	D
1	Favorite Minnesota-Grown Apples			
2				
3	Type of Apple	Number of Students		
4				
5	Cortland	8		
6	Honey Crisp	27		
7	McIntosh	15		
8	Paula Red	23		
9	Sweet Sixteen	20		
10	Zestar!	32		
11				
12				

Use the spreadsheet table to answer the questions.

- ① What kind of information is shown in Column B?

- ② What is shown in cell A9? _____
- ③ Which cell shows the number of students who chose Zestar! as their favorite apple? cell _____
- ④ What is shown in the display bar? _____
- ⑤ How many students chose Honey Crisp, Minnesota's state apple? _____ students
- ⑥ How many students in all chose a favorite apple? _____ students
- ⑦ How many more students chose Zestar! than Sweet Sixteen? _____ students
- ⑧ Which apple was chosen by about twice as many students as the Cortland?

Spreadsheet Graph

Lesson 7-0

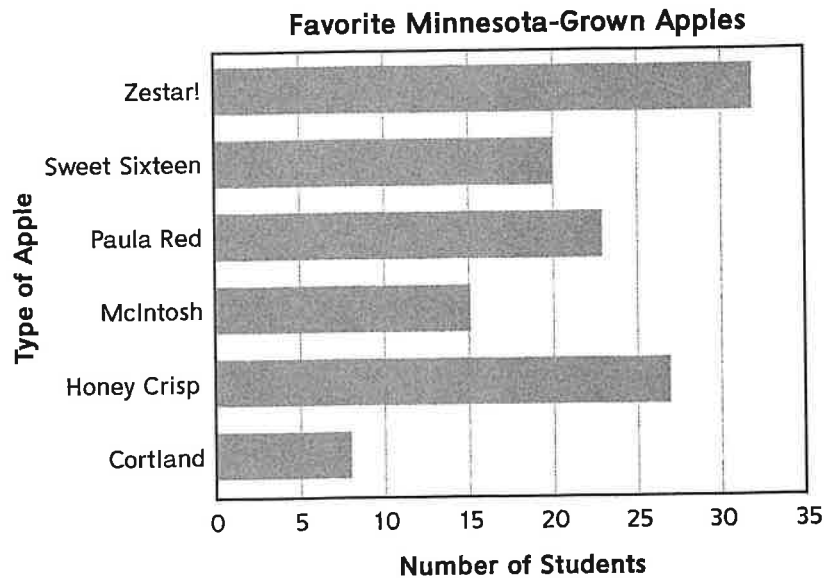


NAME _____

DATE _____

TIME _____

The Blue Farm Elementary School students used the data from the spreadsheet table on *Essentials Math Masters*, page Lesson 7-0 • MM2 to make the graph below.



Use the graph to answer the questions.

- ① What is the title of the graph? _____
- ② What is the scale for the graph? intervals of _____
- ③ For which apples is it easy to see exactly how many students chose that type?

Why? _____

- ④ Which apples were chosen by fewer than 25 students?

- ⑤ Do you think the spreadsheet table or the graph does a better job of displaying the favorite apple data? Why?

Spreadsheet Tables and Graphs

Home Link 7-0

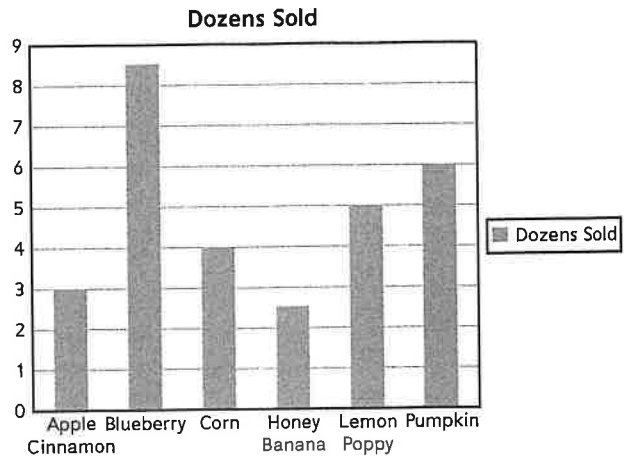
NAME _____

DATE _____

TIME _____

A bakery sells a variety of muffins. The spreadsheet table and graph below show sales for the first week of January. Use the table and graph to answer the questions.

Type Of Muffin	Dozens Sold
Apple Cinnamon	3
Blueberry	8 1/2
Corn	4
Honey Banana	2 1/2
Lemon Poppy	5
Pumpkin	6



- The blueberry muffin is the state muffin of Minnesota and the bakery's best seller. How many dozen blueberry muffins were sold? _____ dozen
- How many more dozen pumpkin muffins were sold than honey banana? _____ dozen
- How many *dozen* muffins were sold in all? _____ dozen
- How many *muffins* were sold in all? _____ muffins
- The bakery would like to cut back on the number of muffins it bakes each week. Based on this week's sales, which flavor, if any, would you recommend dropping? Explain your reasoning.

Practice

Order the fractions from smallest to largest.

⑥ $\frac{3}{4}, \frac{5}{8}, \frac{3}{2}$ _____

⑦ $\frac{1}{3}, \frac{1}{5}, \frac{3}{12}$ _____

Spreadsheet Table and Graph – Medals

Lesson 7-5

NAME _____

DATE _____

TIME _____

The spreadsheet table below and the graph on *Essentials Math Masters*, page Lesson 7-5 • MM2 show the number of medals won by ten countries at the 2016 Summer Olympics in Rio de Janeiro, Brazil. Use the spreadsheet table and graph to answer the questions.

	A	B	C	D	E
1	Top Ten Medals by Country at 2016 Summer Olympics				
2	Country	Gold	Silver	Bronze	Total Medals
3	United States	46	37	38	121
4	Great Britain	27	23	17	67
5	China	26	18	26	70
6	Russia	19	18	19	56
7	Germany	17	10	15	42
8	Japan	12	8	21	41
9	France	10	18	14	42
10	Korea	9	3	9	21
11	Italy	8	12	8	28
12	Australia	8	11	10	29

- ① What kind of information is shown in column B?

- ② What kind of information is shown in row 12?

- ③ What is shown in cell A5? _____
- ④ Which cell shows the total number of medals won by Japan? cell _____
- ⑤ Suppose the number in cell B3 changed to 40. Which other cell would change?
cell _____ What would now be shown in that cell? _____
- ⑥ What would change in the spreadsheet if the total number of medals earned by Korea was 15 instead of 21? Explain.

Spreadsheet Table and Graph – Medals (continued)

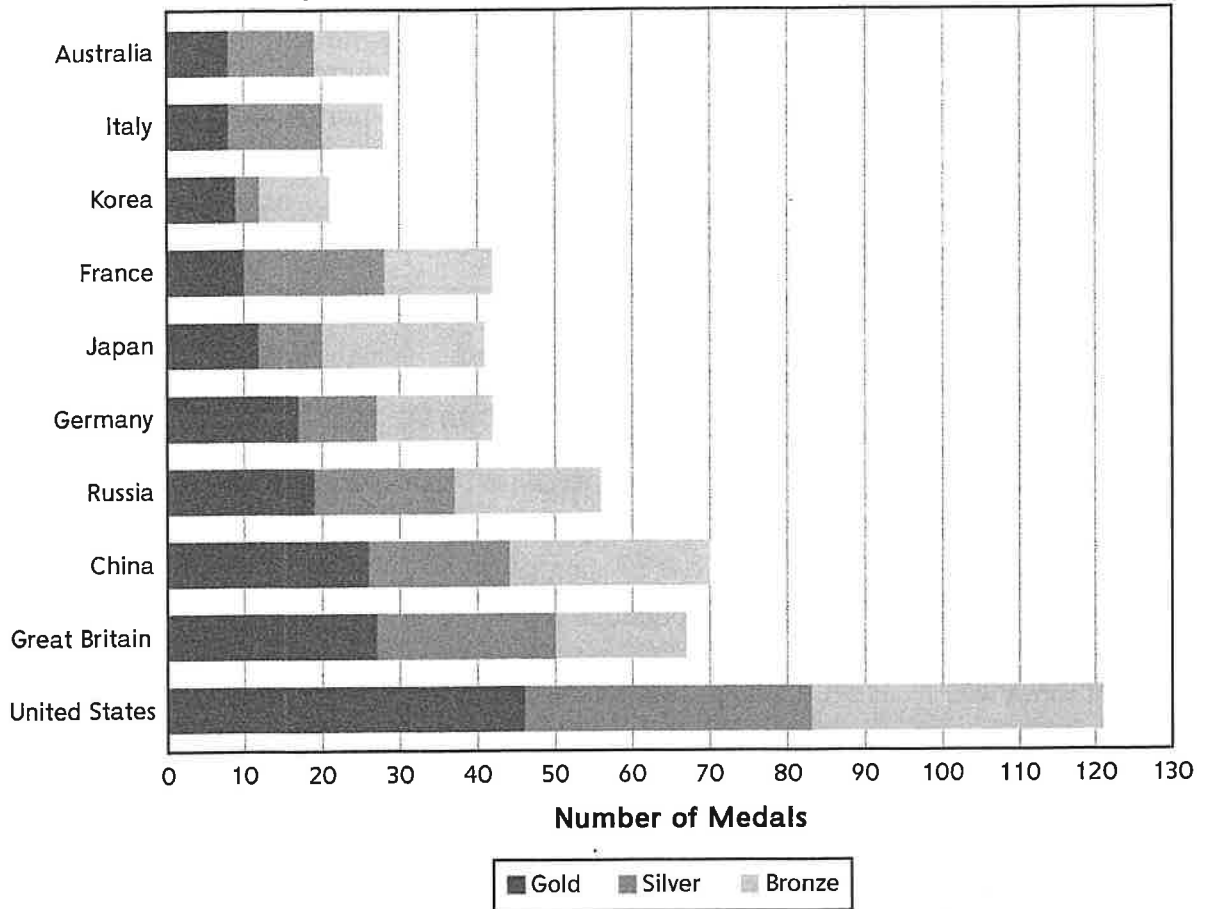
Lesson 7-5

NAME _____

DATE _____

TIME _____

Top Ten Medals by Country at 2016 Summer Olympics



- 7 a. How many gold medals did France win? _____ gold medals
 b. On the graph, circle where this information is found.
- 8 a. Use the graph to find the total number of medals won by China. 70 medals
 b. Explain how you used the graph to find China's total.
- 9 Explain how you can use the graph to determine which country won about half as many medals as the United States.

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Spreadsheet Table and Graph – Movies

Lesson 7-11

NAME _____ DATE _____ TIME _____

The spreadsheet table below and the graph on *Essentials Math Masters*, page Lesson 7-11 • MM2 show total ticket sales for the ten family movies that have earned the most money through ticket sales in the United States. Use the spreadsheet table and graph to answer the questions.

A		B
U.S. Ticket Sales for All-Time Most Popular Family Movies		
2	Movie Title	Ticket Sales
3	Finding Dory	\$486,295,561
4	Star Wars: Episode I-The Phantom Menace	\$474,544,677
5	Star Wars	\$460,998,007
6	Shrek 2	\$441,226,247
7	E.T.:The Extra-Terrestrial	\$435,110,554
8	The Lion King	\$422,783,777
9	Toy Story 3	\$415,004,880
10	Frozen	\$400,738,009
11	Finding Nemo	\$380,843,261
12	The Secret Life of Pets	\$368,384,330

- ① What kind of information is shown in Column B of the spreadsheet?

- ② What is shown in the display bar? _____
- ③ What is shown in cell A11? _____
- ④ Which cell shows the total ticket sales for The Secret Life of Pets? cell _____
- ⑤ What were the ticket sales for the most popular movie? _____
- ⑥ What, if anything, would change in the spreadsheet if the ticket sales for Toy Story 3 were 5 million dollars less than what is shown in cell B9? Explain.

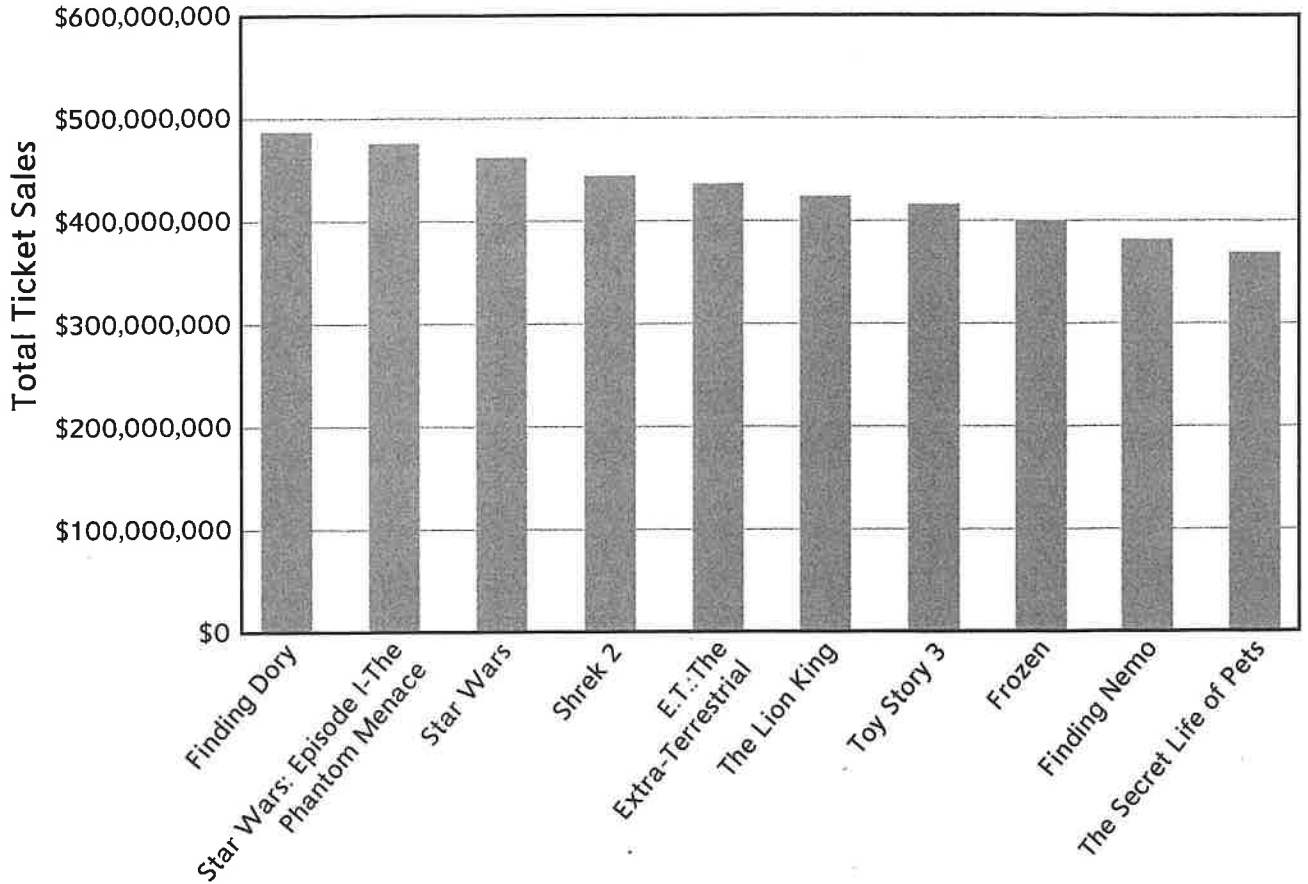
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Spreadsheet Table and Graph – Movies (continued)

Lesson 7-11

NAME _____
DATE _____
TIME _____

U.S. Ticket Sales for All-Time Most Popular Family Movies



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- 7 Use the graph to help you determine whether each statement is true or false. Write T or F.
- a. Star Wars earned more than \$300,000,000. _____
 - b. Finding Dory earned about twice as much as Frozen. _____
 - c. Finding Nemo earned less than \$400,000,000. _____
 - d. The Lion King was more popular than E.T.: The Extra-Terrestrial. _____

8 Write a true statement about the data in the graph.

9 Write a false statement about the data in the graph.

Partial-Quotients with Two-Digit Divisors

Lesson 7-12



NAME _____

DATE _____

TIME _____

Estimate. Write a number model to represent the problem. Then use partial quotients to solve.



- ① The Organic Apple Company picked 5,275 pounds of apples in October. The apples were divided into 44-pound bushels. How many bushels were picked?

Estimate: _____ bushels

Number model with unknown: _____

Answer: _____ bushels

How many pounds of apples were left over?

_____ pounds

- ② Nine-hundred fifty of the apples were sorted in 5-pound bags. Each bag contained about 14 apples. How many bags of apples were filled?

Estimate: _____ bags

Number model with unknown: _____

Answer: _____ bags

How many apples were left over?

_____ apples

- ③ Choose one of the problems above. Show another partial-quotients solution by choosing different multiples of the 2-digit divisor.

Comparing Fractions and Mixed Numbers

Lesson 7-8

NAME _____

DATE _____

TIME _____



For each of the following problems, decide if you agree or disagree with the student. Then explain your reasoning using number lines, fraction circles, or other strategies.

- ① Cara says $2\frac{1}{3}$ is greater than $\frac{5}{2}$ because $2\frac{1}{3}$ is a mixed number. $2\frac{1}{3}$ has a whole number part and a fraction part. $\frac{5}{2}$ only has the fraction part so it is smaller.

a. Do you agree or disagree? _____

b. Explain.

- ② Sergio says $\frac{30}{10}$ is greater than $\frac{24}{8}$ because $30 > 24$ and $10 > 8$.

a. Do you agree or disagree? _____

b. Explain.

- ③ Taylor says $1\frac{7}{8}$ and $1\frac{11}{12}$ are equivalent because the whole numbers are the same and both fraction parts only have one piece missing.

a. Do you agree or disagree? _____

b. Explain.