

Name: _____ Date: _____

Double Bar Graphs

Practice to review... I can use a double bar graph to compare sets of data!

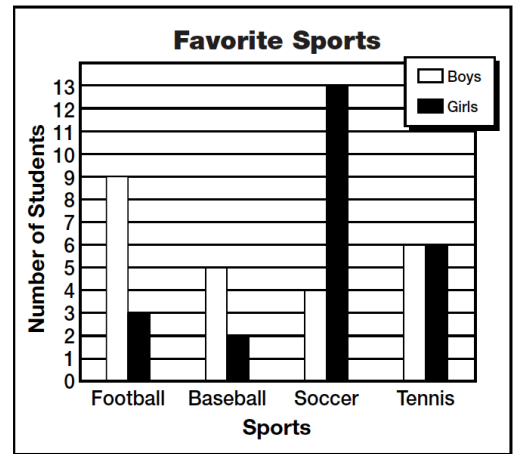
A **double bar graph** uses vertical or horizontal bars to compare related data.

Denny took a survey of his classmates to find their favorite sports. He recorded the data in a double bar graph.

Use Denny's data to complete the table.

Favorite Sports		
Sport	Boys	Girls
Football		
Baseball		
Soccer		
Tennis		

What do you notice? Write a comparison statement about the data.



Practice to remember...

Use the graph to answer the questions.

- How many more boys than girls chose baseball?
- How many students liked football the most?

- For which sport is there the greatest difference between boys and girls?
- Which is the least popular sport?

Use the graph. Circle **T** if the statement is true and **F** if the statement is false.

- T** **F** Three times as many boys as girls chose football.
- T** **F** More girls than boys chose soccer.
- T** **F** Tennis is the most popular sport.
- T** **F** Soccer is the most popular with boys.

Use the graph to answer the question.

- How many students did Danny survey? Show how you know.

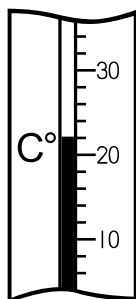
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Remembering

Practice for fluency...

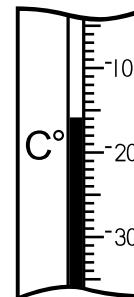
10. What is the temperature?

- a. $18^{\circ} C$
 b. $19^{\circ} C$
 c. $21^{\circ} C$
 d. $22^{\circ} C$



11. What is the temperature?

- a. $16^{\circ} C$
 b. $-16^{\circ} C$
 c. $24^{\circ} C$
 d. $-24^{\circ} C$



Complete.

12. 3 T = _____ lb

13. _____ pt = 4 qt 1 pt

14. 140 oz = _____ lb _____ oz

15. 55 qt = _____ gal _____ qt

Standard Unit Conversions

Length

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft) = 36 inches (in.)

1 mile (mi) = 1,760 yards (yd) = 5,280 feet (ft)

Weight

1 pound (lb) = 16 ounces (oz)

1 ton (T) = 2,000 pounds (lb)

Volume

1 cup (c) = 8 fluid ounces (fl oz)

1 quart (qt) = 2 pints (pt)

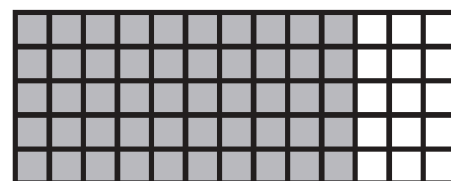
1 pint (pt) = 2 cups (c)

1 gallon (gal.) = 4 quarts (qt)

Answer each question. Explain your thinking.

16. A thrush weighs two hundred fifteen thousandths of a kilogram. Melvin wrote the weight this way: 215,000 kilograms. Is Melvin's answer correct? Explain.

17. Use the Distributive Property to multiply. Show the partial products and find the sum. The write a multiplication equation.



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Line and Double Line Graphs

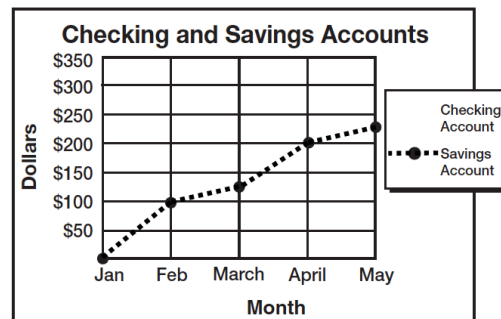
Practice to review... I can interpret and make line graphs and double line graphs!

A **line graph** uses line segments to show changes in data. A line graph is often used to display data that changes over time.

Mr. Wilkins keeps track of the money he has in the bank. At the end of every month, he records the balances in his checking and savings accounts.

Use the data to graph the checking account balances.

Account Balances		
Month	Checking	Savings
January	\$50	\$0
February	\$100	\$100
March	\$150	\$125
April	\$25	\$200
May	\$100	\$225



What do you notice? Write a comparison statement about the data.

Practice to remember...

Use the graph to answer the questions.

- By how much money did the savings account increase from March to April?
- Between which two months did Mr. Wilkins' checking account grow the most?

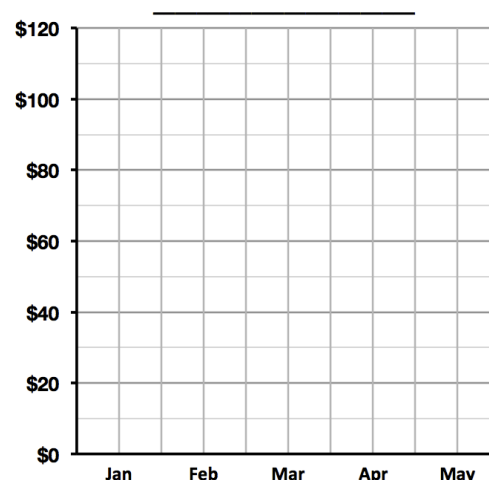
Use the graph. Circle **T** if the statement is true and **F** if the statement is false.

- T** **F** There is more money in the savings account every month.
- T** **F** The amount of money in both accounts was the same in February.

Complete the line graph. Be sure to label all parts of the graph.

- Mr. Wilkins also has a money market account. Use the balances shown in the table to complete a line graph.

Month	Jan.	Feb.	Mar.	Apr.	May
Balance	\$0	\$20	\$40	\$90	\$110



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Remembering

Practice for fluency...

Simplify.

6. $(4 \cdot 2) + 5 \cdot 3$

a. 84

b. 68

c. 39

d. 23

7. $5 + 2 \cdot 4^2$

a. 21

b. 37

c. 69

d. 112

Compare. Write $>$, $<$, or $=$ for each .

8. 5 pt 9 c

9. 3 T 500 lb 7,000 lb

10. 4 lb 64 oz

11. 3 gal 2 qt 15 qt

Standard Unit Conversions**Length**

1 foot (ft) = 12 inches (in.)

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1 mile (mi) = 1,760 yards (yd) = 5,280 feet (ft)

Weight

1 pound (lb) = 16 ounces (oz)

1 ton (T) = 2,000 pounds (lb)

Volume

1 cup (c) = 8 fluid ounces (fl oz)

1 quart (qt) = 2 pints (pt)

1 pint (pt) = 2 cups (c)

1 gallon (gal.) = 4 quarts (qt)

Answer each question. Explain your thinking.

12. Janell spent \$40 for an outfit. She paid for the items using \$10, \$5, and \$1 bills. If she gave the clerk 10 bills in all, how many of each bill did she use? Explain.

13. Put in parentheses in the expression to make it equivalent to 109. Simplify the expression to check your work.









$$28 - 3 \cdot 4 + 3^2$$

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Choose an Appropriate Graph

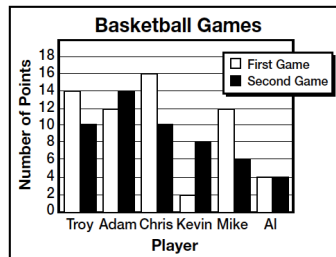
Practice to review... I can choose an appropriate graph to display data!

A **pictograph** uses pictures or symbols to represent and compare data. A pictograph might be used when the data are multiples of a number.

Going to School  = 10 students	
Vehicle	Number of Students
Bus	 5
Van	    
Car	

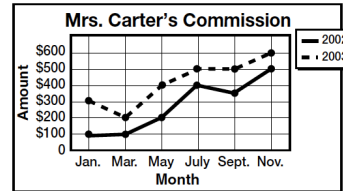
These data are
multiples of _____.

A **bar graph** uses vertical or horizontal bars to represent data. A bar graph is used to make comparisons with data.



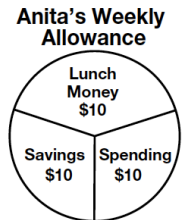
This graph is comparing

A **line graph** uses line segments to show changes in data. A line graph is often used to display data that changes over time.



This graph shows changes
in _____

A **circle graph** is used to display data that make up a whole. A circle graph can also be called a pie graph or pie chart.



This data shows all of

Practice to remember...

Identify an appropriate graph for the data. Explain your thinking.

1. Elizabeth's data shows fund-raising sales for the school's soccer team.

Soccer Team's Total Fund-Raising Sales					
Day	1	2	3	4	5
Team A	\$100	\$225	\$400	\$370	\$450
Team B	\$50	\$100	\$150	\$200	\$250

2. Mark's data shows the current school records for field events.

Event	Record
Javelin, women's	74.68 m
Javelin, men's	89.66 m
Discus, women's	72.30 m
Discus, men's	68.82 m
Shotput, women's	22.41 m
Shotput, men's	22.47 m

3. Remy's data shows the favorite sport for each person in her class.

Sport	Number of Students
Baseball	16
Football	8
Soccer	12
Softball	4
Hockey	4
Total	44

Answer the question. Explain your thinking.

4. Rolf collected data on the number of books checked out of the school library in February. He decided to display his data in a bar graph. Explain why Rolf might have chosen a bar graph to represent these data.

Books Checked Out	
Week 1	40
Week 2	25
Week 3	55
Week 4	30

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Remembering

Practice for fluency...

5. City A has a population of 3,224,678. City B is home to 113,870 people. City C has 738,645 residents. How many more people live in City A than in City B and City C combined?

a. 3,110,808

b. 2,486,033

c. 2,372,163

d. 2,129,653

6. Find the sum.

$$\begin{array}{r} 349,654 \\ + 812,748 \\ \hline \end{array}$$

a. 1,151,302

b. 1,151,392

c. 1,162,402

d. 1,162,492

Compare. Write $>$, $<$, or $=$ for each .

7. 7 yd 1 ft 25 ft

8. 38 in. 3 ft

9. 45 ft 500 in.

10. 7 ft 8 in. 100 in.

Standard Unit Conversions	
Length	Weight
1 foot (ft) = 12 inches (in.)	1 pound (lb) = 16 ounces (oz)
1 yard (yd) = 3 feet (ft) = 36 inches (in.)	1 ton (T) = 2,000 pounds (lb)
1 mile (mi) = 1,760 yards (yd) = 5,280 feet (ft)	
Volume	
1 cup (c) = 8 fluid ounces (fl oz)	1 quart (qt) = 2 pints (pt)
1 pint (pt) = 2 cups (c)	1 gallon (gal.) = 4 quarts (qt)

Answer each question. Explain your thinking.

11. In basketball, the free-throw line is 15 feet from the basket. How many inches is it? Show how you know.

12. Each base in baseball is 90 feet from the next base. How many yards is that? Show how you know.

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Line Plots

Practice to review... I can make line plots to represent and analyze data!

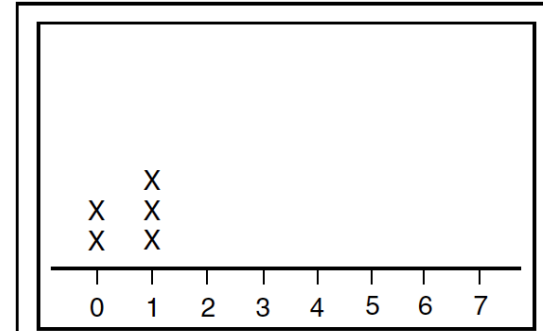
Sarie asked each of her classmates how many siblings they have. *This is Sarie's data.* 7

3, 2, 2, 1, 5, 0, 1, 2, 0, 1, 2, 5

A line plot shows data using X's along a number line.

Complete the line plot to show all of Sarie's data. →

Give the line plot a title. →



Practice to remember...

Represent the data on the line plot. Give the line plot a title.

1.

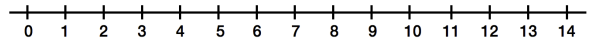
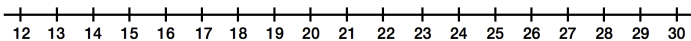
Number of Pets	
Eric	0
Christina	4
Mason	1
Maxwell	1
Jenna	6
Mohamed	0
Jazmin	1
Chloé	6
Marcus	0
Oliver	2
Bentley	2
Blair	1



Use the data to make a line plot.

2. 16, 20, 25, 22, 30, 29, 12, 16, 20, 30

3. 2, 5, 14, 6, 3, 6, 0, 1, 5, 0, 6, 1, 5, 6, 0, 3, 3, 6, 5, 3

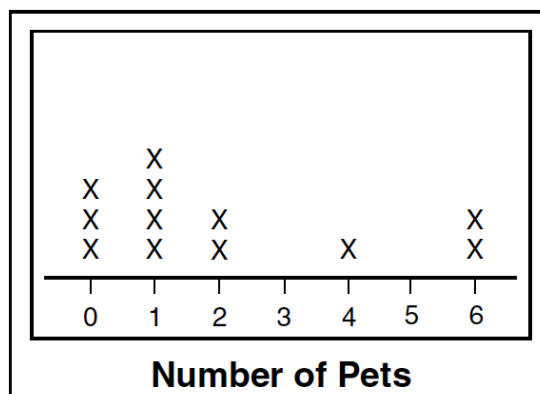


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Practice to remember, continued...

Suppose another person had 2 pets and two more people had 6 pets.

Add this new data to the line plot.

**Remembering****Practice for fluency...**

10. Which product is 4,000?

- a. 2×20
- b. 20×20
- c. 20×200
- d. $20 \times 2,000$

11. Which product is 1,200?

- a. 4×30
- b. 40×30
- c. 40×300
- d. $40 \times 3,000$

Fill in the missing value.

12. 2 T = _____ lb

13. _____ lb = 64 oz

Compare. Write $>$, $<$, or $=$ for each .14. 44 oz 3 lb15. 2 T 5,000 lb

Use the story to answer each question. Use pictures, numbers, or words to show how you know.

16. Which has the greater diameter, Venus or Earth?
Show how you know.

Planet	Diameter (km)
Mercury	4,879
Venus	12,104
Earth	12,756
Mars	6,794
Jupiter	142,984
Saturn	120,536

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Draw Conclusions and Make Predictions

Practice to review... I can draw conclusions and make predictions based on data!

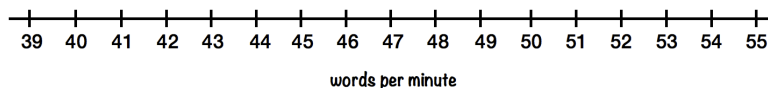
I can make and use a line plot to analyze data!

Dave took 12 typing tests to see how many words he could type per minute.

Complete the line plot to show all of Dave's data.

words per minute:

42, 44, 41, 39, 55, 40, 46, 46, 40, 48, 41, 46



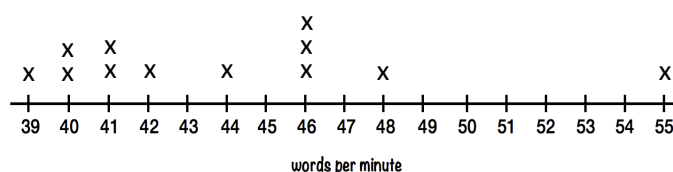
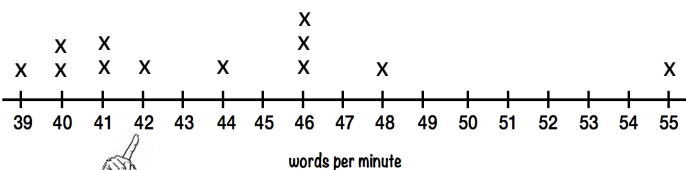
I can use the information on a line plot to draw conclusions!

How many times did Dave type at least 42 words per minute?

How many times did Dave type more than 46 words per minute?

Think!
What does "at least 42" mean? Which x's will I count?

Think!
What does "more than 46" mean? Which x's will I count?



Practice to remember...

Use Dave's data to answer the questions.

- Dave set a personal goal of typing at least 45 words per minute. How many of Dave's typing tests met his goal? Explain.
- What do you think Dave will score on his next typing test? Why?

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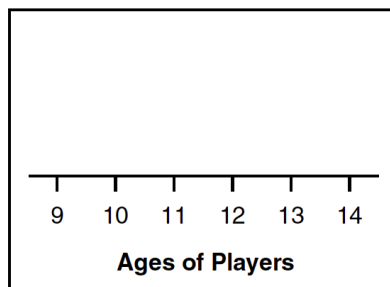
Practice to remember...

Dimitri recorded the ages of the players on his baseball team. He recorded the ages in a table. Use Dimitri's table to make a line plot of the players' ages.

3.

Name	Age (Years)
Joseph	12
Theo	11
Nick	13
Fred	14
Missy	11
Cleo	14
Harvey	11

Name	Age (Years)
Tia	11
Peter	13
Lynn	13
Jerome	10
Billy	9
Martina	14
Tracy	12

**Remembering****Practice for fluency...**

4. The Rogun Dam is 1,066 feet high. The Nurek Dam, which was built five years earlier, is 984 feet high. How much higher is the Rogun Dam than the Nurek Dam?
- a. 2,050 ft b. 182 ft
- c. 82 ft d. 72 ft
5. How is 39,401 written in word form?
- a. thirty-nine thousand, four hundred one
- b. three thousand nine hundred forty-one
- c. three hundred nine thousand, forty-one
- d. three hundred nine thousand, four hundred one

Multiply or divide.

6. 9×6
- a. 3 b. 15
- c. 54 d. 56
7. $7 \div 0$
- a. 0 b. 7
- c. 70 d. no solution

Answer the question.

8. Jessie made a table to show the scores for his team, the Goldenrods, and the opposing team in the first three games of the season. What type of graph would be most appropriate for Jessie to use to display these data? Explain.

Points Scored in Each Game			
Team	Game 1	Game 2	Game 3
Goldenrods	47	51	63
Opponents	42	55	57