

Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Tally and Frequency Tables – Part 1

Classwork

What is the number represented \_\_\_\_\_ by the tally marks?

- |                |       |                    |       |
|----------------|-------|--------------------|-------|
| 1. III         | _____ | 6. II              | _____ |
| 2. IIII IIII I | _____ | 7. IIII III        | _____ |
| 3. II          | _____ | 8. IIII IIII IIII  | _____ |
| 4. IIII        | _____ | 9. IIII            | _____ |
| 5. IIII III    | _____ | 10. IIII IIII IIII | _____ |

Write the number in tally marks.

- |        |       |        |       |
|--------|-------|--------|-------|
| 11. 41 | _____ | 16. 8  | _____ |
| 12. 12 | _____ | 17. 13 | _____ |
| 13. 10 | _____ | 18. 18 | _____ |
| 14. 4  | _____ | 19. 20 | _____ |
| 15. 5  | _____ | 20. 22 | _____ |

Fill in the missing information in the tables.

Pets of J.P. Elementary School's 3<sup>rd</sup> Grade Class

Pet	Tally	Frequency
Cat	IIII IIII IIII IIII IIII	
Dog	IIII IIII IIII IIII	
Hamster/Rat/Mouse		15
Bird		10
Turtle		11
Lizard		7

Lunch Order for Bill's Office on Tuesday

Food	Tally	Frequency
Pizza	IIII IIII	
Salad		12
Burger	IIII	
Sandwich		15

Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Tally and Frequency Tables – Part 1

Homework

What is the number represented by the tally marks?

1.  \_\_\_\_\_


2.  \_\_\_\_\_

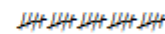
3.  \_\_\_\_\_

4.  \_\_\_\_\_

5.  \_\_\_\_\_

6.  \_\_\_\_\_

7.  \_\_\_\_\_

8.  \_\_\_\_\_

9.  \_\_\_\_\_

10.  \_\_\_\_\_

Write the number in tally marks.

11. 36 \_\_\_\_\_

12. 22 \_\_\_\_\_

13. 11 \_\_\_\_\_

14. 3 \_\_\_\_\_

15. 2 \_\_\_\_\_

16. 1 \_\_\_\_\_

17. 6 \_\_\_\_\_

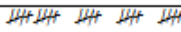

18. 8 \_\_\_\_\_

19. 7 \_\_\_\_\_

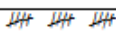

20. 29 \_\_\_\_\_

Fill in the missing information in the tables.

Pets of J.P. Elementary School's 4<sup>th</sup> Grade Class

Pet	Tally	Frequency
Cat		42
Dog		
Hamster/Rat/Mouse		12
Bird		
Turtle		9
Lizard		12

Lunch Order for Bill's Office on Wednesday

Food	Tally	Frequency
Pizza		
Salad		10
Burger		
Sandwich		21

Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Tally and Frequency Tables – Part 2

Classwork

Answer the questions using the table.

Milk Order for Miss Smith’s 3<sup>rd</sup> Grade Class

Type of Milk	Tally	Frequency
Regular		5
Skim		2
Strawberry	I	6
Chocolate	IIII	9

- How many chocolate and strawberry milk cartons were ordered? \_\_\_\_\_
- How many more cartons of chocolate milk than regular milk were ordered?  
\_\_\_\_\_
- If every student in the class ordered a carton of milk, how many students are in Miss Smith’s class? \_\_\_\_\_
- How many cartons of regular and skim milk were ordered? \_\_\_\_\_
- Did the same number of students order skim and strawberry milk as chocolate?  
\_\_\_\_\_

John has 1 cat, 2 dogs, and 3 hamsters. Sarah has 3 cats. Melissa has 2 cats and 2 dogs. Bill has 4 hamsters and 1 dog. Jesse has 1 cat, 1 dog, and 1 hamster. Organize the data into a table.

Pets

Animal	Tally	Frequency
Cat		
Dog		
Hamster		

- Which pet is the greatest in number? \_\_\_\_\_
- Which pet is the least in number? \_\_\_\_\_
- How many more hamsters are there than cats? \_\_\_\_\_
- Are there more dogs or more cats? \_\_\_\_\_ How many more? \_\_\_\_\_

Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Tally and Frequency Tables – Part 2

Homework

Answer the questions using the table.

Milk Order for Mr. Kelly's 4<sup>th</sup> Grade Class

Type of Milk	Tally	Frequency
Regular		10
Skim		3
Strawberry		4
Chocolate	1	6

1. How many chocolate and strawberry milk cartons were ordered? \_\_\_\_\_
2. Did the students order an equal number of strawberry and chocolate milk cartons as regular milk cartons? \_\_\_\_\_
3. Which number is greater? Non-flavored milk, or flavored milk? \_\_\_\_\_
4. Is the number of skim and strawberry milk cartons greater than the number chocolate milk cartons? \_\_\_\_\_
5. How many students are in the class if each person ordered one carton? \_\_\_\_\_

Michelle has 4 pencils, 5 pens, and 3 erasers. Michael has 5 pencils, and 2 pens, and 3 erasers. Claude has 3 pencils, 3 pens, and 1 eraser. Julie has 1 pencil, 4 pens, and 1 eraser. Organize the data into a table.

What's in Your Pencil Case?

Item	Tally	Frequency
Pencil		
Pen		
Eraser		

6. How many pencils are there among the students? \_\_\_\_\_
7. Are there more pencils or pens? \_\_\_\_\_ How many more? \_\_\_\_\_
8. Are there an equal number of erasers as pencils? \_\_\_\_\_
9. How many more pens are there than erasers? \_\_\_\_\_

Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Tally and Frequency Tables – Part 3

Classwork

Class 3L had a bake sale on Friday. They sold 14 cupcakes, 12 muffins, 12 donuts, and 11 brownies.

Organize this information into a tally table.

3L's Bake Sale

Baked Item	Tally

Class 3K also had a bake sale. They sold 19 cupcakes, 10 muffins, 13 donuts, and 17 brownies. Organize this information into a frequency table.

3K's Bake Sale

Baked Item	Frequency

Combine the items sold from Class 3L and 3K into a tally and frequency table. Answer the questions that follow.

3L and 3K's Bake Sale

Baked Item	Tally	Frequency

1. How many total cupcakes were sold? \_\_\_\_\_
2. How many more brownies than muffins were sold? \_\_\_\_\_
3. Which item was the most popular? \_\_\_\_\_
4. If both classes expect to sell double the amount of cupcakes next week, how many cupcakes will they sell? \_\_\_\_\_

Tally and Frequency Tables – Part 3

Homework

John’s Pizza sold many pizza pies in one hour. They sold 12 pepperoni pies, 13 plain pies, 16 mushroom pies, and 14 combo pies. Organize this information into a tally table.

Pizzas Sold in One Hour at John’s Pizza

Pizza	Tally

The next hour, they sold even more pizzas. John’s Pizza sold 14 pepperoni pies, 15 plain pies, 20 mushroom pies, and 16 combo pies. Organize this information into a frequency table.

Pizza Sold in One Hour at John’s Pizza

Pizza	Frequency

Combine the pizzas sold from the two hours above into a tally and frequency table. Answer the questions that follow.






Pizza Sold in Two Hours at John’s Pizza

Pizza	Tally	Frequency

1. How many combo pizzas did they sell in total? \_\_\_\_\_
2. Did they sell more pepperoni pies than plain pies? \_\_\_\_\_
3. How many pizzas were sold altogether? \_\_\_\_\_
4. If a pizza pie costs \$10 a pie, how much did John’s Pizza make in those two hours?  
\_\_\_\_\_





Reading Information in Pictographs  
Classwork

Favorite Ice Cream Flavors in Ms. Smith's Class

	Ice Cream	Votes
	Chocolate	
	Vanilla	
	Strawberry	
	Pistachio	

1. What is the most popular flavor in Ms. Smith's Class? \_\_\_\_\_
2. Which flavor is the least popular in Ms. Smith's Class? \_\_\_\_\_
3. How many people like strawberry and vanilla ice cream? \_\_\_\_\_
4. How many more people like chocolate than vanilla ice cream? \_\_\_\_\_
5. If one ice cream cone represented two votes, how many people like strawberry ice cream?  
\_\_\_\_\_

Stickers Earned This Week  = one sticker

Name	Stickers
Sam	
Miranda	
Christopher	
Liz	
Kim	

6. Who earned the most stickers? \_\_\_\_\_
7. How many stickers did Sam and Miranda earn together? \_\_\_\_\_
8. Kim had two new stickers she put on the board. How many does she have now?  
\_\_\_\_\_
9. Christopher traded in two stickers for a pencil. How many stickers does he have now?  
\_\_\_\_\_
10. How many more stickers does Kim have than Miranda? \_\_\_\_\_

Graphs

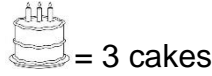
Name: \_\_\_\_\_

Date: \_\_\_\_\_

Reading Information in Pictographs

Homework

Cakes Sold at Palisades Bakery in One Week



Days of the Week	Cakes Sold
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

1. Which day sold the least amount of cakes? \_\_\_\_\_ How many cakes were sold on that day? \_\_\_\_\_
2. Which day sold the most amount of cakes? \_\_\_\_\_ How many cakes were sold on that day? \_\_\_\_\_
3. How many more cakes do they need to sell on Tuesday to match what they sold on Wednesday? \_\_\_\_\_
4. How many more cakes did they sell on Friday than on Monday? \_\_\_\_\_
5. Which two days match the cake sales of Friday? \_\_\_\_\_

Books Borrowed from the Local Library = 2 books

Day of the Week	Books Borrowed
Tuesday	
Wednesday	
Thursday	
Friday	

6. Which two days had the same amount of books borrowed? \_\_\_\_\_
7. Does Wednesday and Thursday's total equal the number of books borrowed on Friday? \_\_\_\_\_
8. How many books were borrowed on Tuesday and Thursday? \_\_\_\_\_
9. If 30 books were borrowed on Saturday, how many book icons will there be in the row for Saturday? \_\_\_\_\_
10. On Monday, only two books were borrowed. How many more books were borrowed on Wednesday? \_\_\_\_\_



Making Pictographs – Part 1

Classwork

Using the information from the frequency table, make a pictograph.

**Profit Made at 3D's Bake Sale** \$ = 5 dollars

Profit Made at 3D's Bake Sale

Day	Frequency
1 <sup>st</sup> Friday	\$45
2 <sup>nd</sup> Friday	\$50
3 <sup>rd</sup> Friday	\$35
4 <sup>th</sup> Friday	\$55

Day	Profit
1 <sup>st</sup> Friday	
2 <sup>nd</sup> Friday	
3 <sup>rd</sup> Friday	
4 <sup>th</sup> Friday	

- Which Friday had the most sales? \_\_\_\_\_
- Which Friday had the least sales? \_\_\_\_\_
- What was the total profit from the four bake sales? \_\_\_\_\_
- Class 3D decided to have an extra bake sale on Thursday. They made \$65. How many \$ signs would that be in the table? \_\_\_\_\_
- How much more money did they make on the 2<sup>nd</sup> Friday than on the 3<sup>rd</sup> Friday?  
\_\_\_\_\_

Dogs Groomed by the Pet Store Staff

Staff	Dogs Groomed
Michelle	6
Matt	10
Shelly	12
Phil	8

**Dogs Groomed by the Pet Store Staff**  = 2 dogs

Staff	Dogs Groomed
Michelle	
Matt	
Shelly	
Phil	

- How many more dogs did Shelley groom than Phil? \_\_\_\_\_
- How many dogs did Matt and Michelle groom? \_\_\_\_\_
- Did Phil and Michelle together groom more dogs than Shelly? \_\_\_\_\_
- Michelle groomed 4 more dogs. How many has she groomed in total? \_\_\_\_\_
- How many more dogs did Matt and Shelly groom together than Phil? \_\_\_\_\_

Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Making Pictographs – Part 1


Homework

Using the information from the frequency table, make a pictograph.


Class Size in the Elementary School

Grade	Class Size
Kindergarten	50
1 <sup>st</sup> Grade	40
2 <sup>nd</sup> Grade	60
3 <sup>rd</sup> Grade	70


Class Size in the Elementary School

 = 10 students


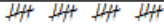
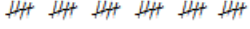
Class	Class Size
Kindergarten	
1 <sup>st</sup> Grade	
2 <sup>nd</sup> Grade	
3 <sup>rd</sup> Grade	

- Which is the largest class? \_\_\_\_\_
- How many more students are in the kindergarten class than the 1<sup>st</sup> grade?  
\_\_\_\_\_
- The 2<sup>nd</sup> grade welcomes 10 more students into its class. How many are in the 2<sup>nd</sup> grade now?  
\_\_\_\_\_
- If the 4<sup>th</sup> and 5<sup>th</sup> grades combined have 90 students, how many  would be needed in the table? \_\_\_\_\_
- How many students are in the 2<sup>nd</sup> and 3<sup>rd</sup> grades combined? \_\_\_\_\_

T-Shirts Sizes Ordered for School Spirit Day

 = 2 shirts

T-Shirts Ordered for School Spirit Day

Size	Number of T-Shirts
Small	
Medium	
Large	

Size	Number of T-Shirts
Small	
Medium	
Large	

- How many large t-shirts were ordered? \_\_\_\_\_
- How many more medium shirts than small shirts were ordered? \_\_\_\_\_
- How many medium and large shirts were ordered altogether? \_\_\_\_\_
- Some X-Large sizes were needed. 8 people ordered this size. How many t-shirts would you draw in the table? \_\_\_\_\_
- How many more medium and large shirts were ordered than small shirts?  
\_\_\_\_\_

Making Pictographs – Part 2

Classwork

Make a pictograph using the information in the table, and answer the following questions.

**Favorite Hobbies of Class 3P**

☆ = one student

**Favorite Hobbies of Class 3P**

Hobby	Students
Reading	
Sports	
Music	
Art	I

Hobby	Students
Reading	
Sports	
Music	
Art	

1. What is the most popular hobby in Class 3P? \_\_\_\_\_
2. How many more students like reading than sports? \_\_\_\_\_
3. What hobby has an equal amount of votes as music? \_\_\_\_\_
4. If every student voted once, how many students are in Class 3P? \_\_\_\_\_
5. How many students voted reading and music as their favorite hobbies?  
\_\_\_\_\_

**Weather for the Month of January**

One picture = 1 day

**Weather for the Month of January**

Weather	No. of Days
Sunny	I
Cloudy	
Rainy	
Snow	

Weather	Number of Days
Sunny ☀	
Cloudy ☁	
Rainy ☔	
Snow ❄	

6. How many days was it cloudy in January? \_\_\_\_\_
7. How many snowy days did January have? \_\_\_\_\_
8. How many more sunny days than cloudy or rainy days? \_\_\_\_\_
9. How many cloudy and rainy days did January have? \_\_\_\_\_
10. If the rest of the days were partly cloudy in January, how many days were partly cloudy? (You have to know how many total days there are in January.) \_\_\_\_\_

Making Pictographs – Part 2

Homework

Make a pictograph using the information in the table, and answer the following questions.

**Movie Attendance**

 = 100 people


Movie Attendance

Day	No. of People
Friday	700
Saturday	900
Sunday	600

Day	Number of People
Friday	
Saturday	
Sunday	

1. What was the busiest day for the movie theater? \_\_\_\_\_
2. How many more people came out on Saturday than Sunday? \_\_\_\_\_
3. How many people came out on Friday and Saturday? \_\_\_\_\_
4. How many more people came out on Friday and Saturday combined than Sunday?  
\_\_\_\_\_
5. How many people came out on Sunday and Friday? \_\_\_\_\_

**Apples Picked on Saturday**

 = 3 apples

Apples Picked on Saturday

Employee	No. of Apples
Fred	15
Karen	21
Will	24

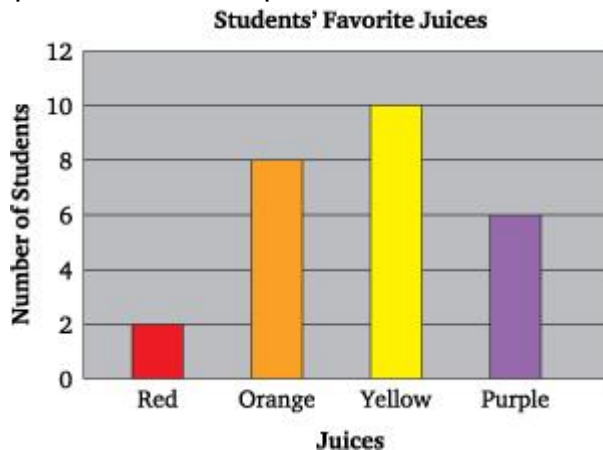
Employee	Number of Apples Picked
Fred	
Karen	
Will	
Shawna	

6. How many more apples did Will pick than Fred? \_\_\_\_\_
7. How many apples did Fred and Karen pick together? \_\_\_\_\_
8. Shawna picked 30 apples. Show this information in the pictograph. \_\_\_\_\_
9. How many more apples did Shawna pick than Fred? \_\_\_\_\_
10. Did Karen and Will pick more apples than Shawna and Fred? \_\_\_\_\_

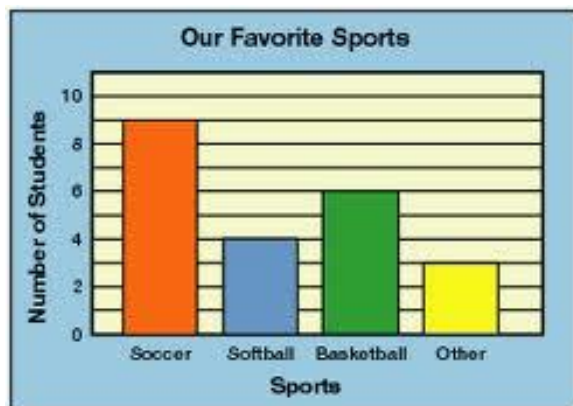
Reading Bar Graphs

Classwork

Study the bar graphs. Answer the questions that follow.



1. What is the title of this graph? \_\_\_\_\_
2. What is the most popular juice? \_\_\_\_\_
3. How many students like this juice? \_\_\_\_\_
4. What is the least popular juice? \_\_\_\_\_
5. How many students like orange and purple juices? \_\_\_\_\_



6. What is the title of this graph? \_\_\_\_\_
7. Which sports are listed? \_\_\_\_\_
8. Which is the most popular sport? \_\_\_\_\_
9. How many more people like basketball than softball? \_\_\_\_\_
10. How many people don't have soccer, softball, or basketball as their favorite sport?  
\_\_\_\_\_

Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Reading Bar Graphs

Homework

Study the bar graphs. Answer the questions that follow.

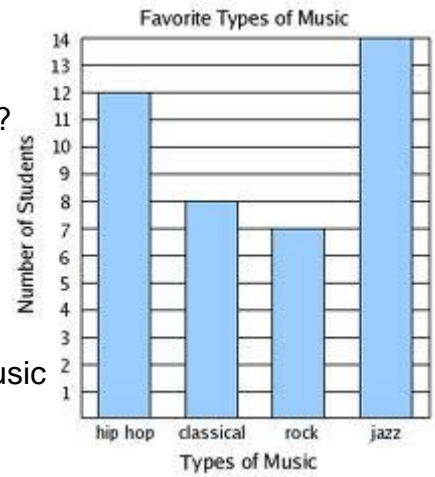
1. What types of music is listed in the bar graph to the right?  
\_\_\_\_\_

2. Which is the most popular type of music?  
\_\_\_\_\_

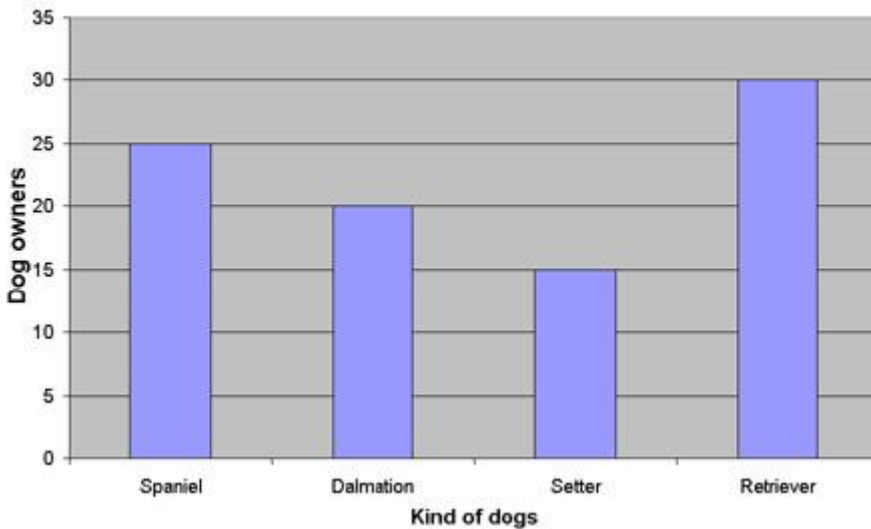
3. 7 students have what type of music as their favorite?  
\_\_\_\_\_

4. How many more students have hip hop than classical music as their favorite type?  
\_\_\_\_\_

5. Do the same number of students have hip hop and classical as their favorite as rock and jazz music? \_\_\_\_\_



**Dog Survey**



6. 15 people have what kind of dog? \_\_\_\_\_

7. How many people have retrievers than spaniels? \_\_\_\_\_

8. There are 5 more Dalmatian owners than what breed? \_\_\_\_\_

9. How many people have retrievers and setters? \_\_\_\_\_

10. How many dog owners were surveyed in total? \_\_\_\_\_

Graphs

Name: \_\_\_\_\_

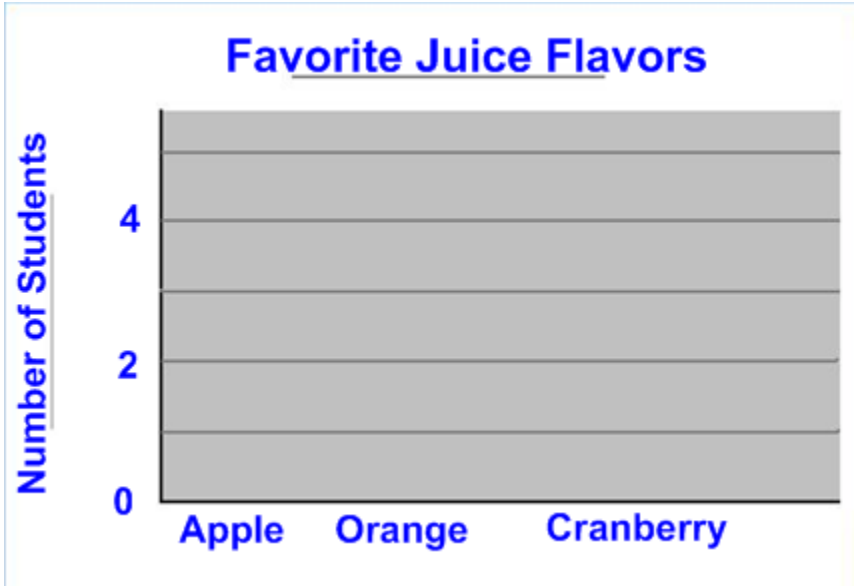
Date: \_\_\_\_\_

Making Bar Graphs Using Data from Tables and Pictographs – Part 1  
Classwork

Fill in the bar graphs. Answer the questions.

Favorite Juice Flavors

Flavor	No. of Students
Apple	4
Orange	3
Cranberry	5

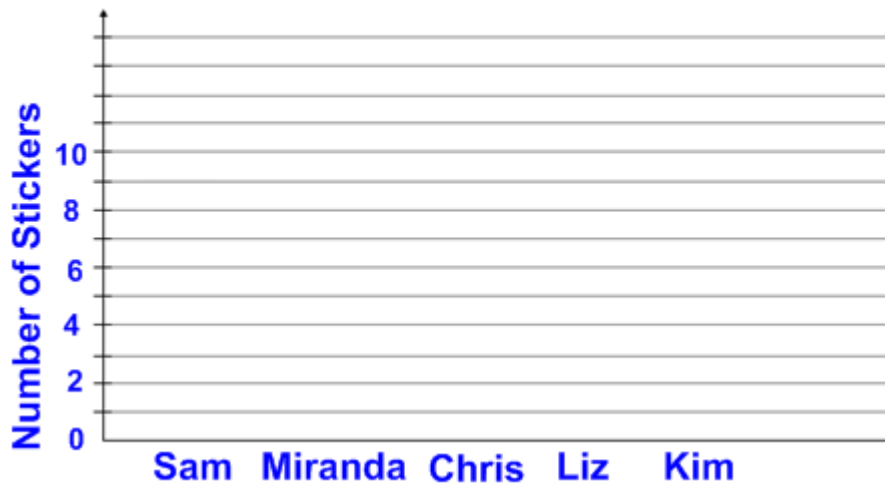


1. How many students have orange juice as their favorite? \_\_\_\_\_
2. How many students like cranberry and apple juice as their favorite? \_\_\_\_\_
3. How many more students like apple and orange juice than cranberry juice? \_\_\_\_\_

Stickers Earned This Week ☺ = one sticker

Name	Stickers
Sam	☺☺☺☺☺☺
Miranda	☺☺☺☺☺
Christopher	☺☺☺☺☺☺☺
Liz	☺☺☺☺☺☺☺☺
Kim	☺☺☺☺☺☺☺

Stickers Earned This Week



4. How many more stickers did Liz earn than Miranda? \_\_\_\_\_
5. Who had two more stickers than Miranda? \_\_\_\_\_
6. Liz had how many more stickers than Sam? \_\_\_\_\_

Graphs

Name: \_\_\_\_\_

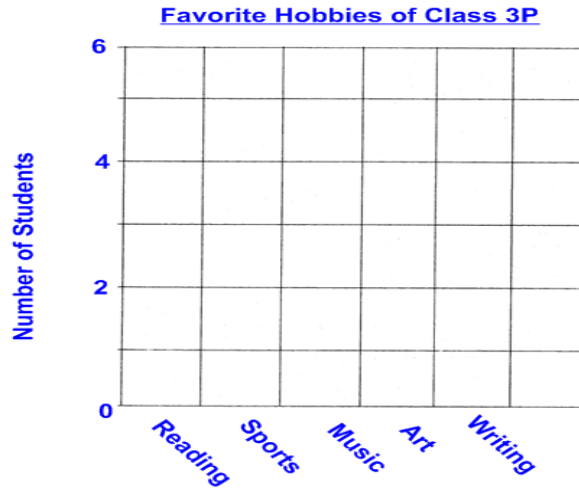
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Making Bar Graphs Using Data from Tables and Pictographs – Part 1  
Homework

Fill in the bar graphs. Answer the questions.

Favorite Hobbies of Class 3P

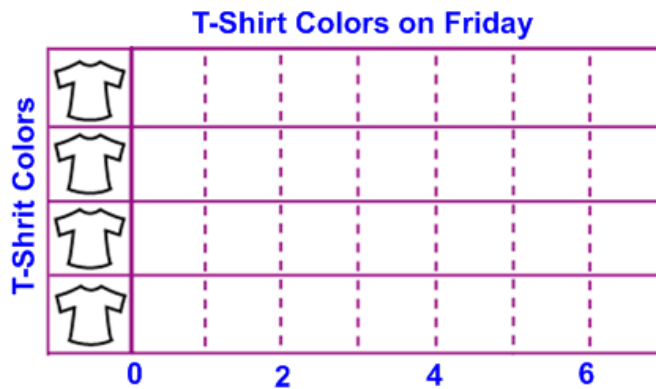
Hobby	Students
Reading	III
Sports	III
Music	III
Art	III I



1. How many students like reading, sports, and music? \_\_\_\_\_
2. Five students like writing. Show that in the bar graph. \_\_\_\_\_
3. How many more like art and music than sports and reading? \_\_\_\_\_

T-Shirt Colors on Friday

Color	No. of T-Shirts
Red	4
Blue	3
Yellow	5
Green	6



4. How many yellow t-shirts were worn? \_\_\_\_\_
5. How many red and blue t-shirts were worn? \_\_\_\_\_
6. How many more green and yellow t-shirts were worn than blue and red t-shirts? \_\_\_\_\_
7. How many students participated in wearing a colored t-shirt on Friday? \_\_\_\_\_



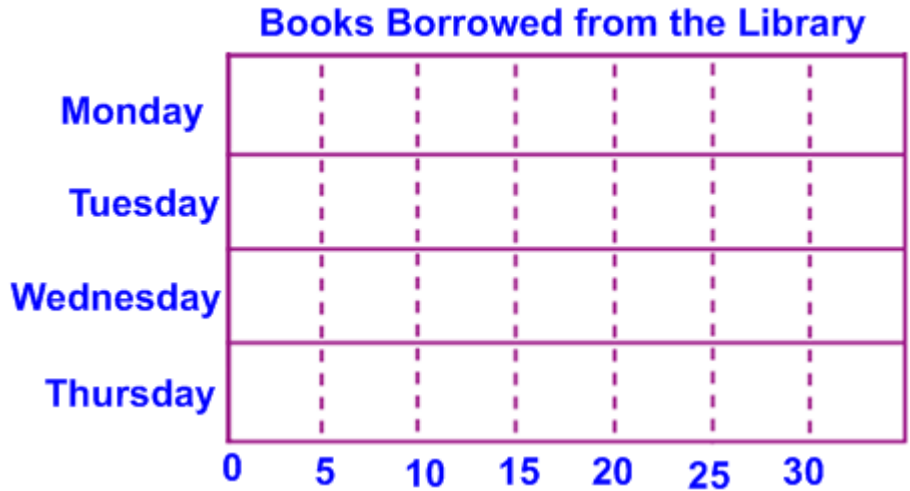
Making Bar Graphs Using Data from Tables and Pictographs – Part 2

Classwork

Use the frequency table to fill in the bar graph.

Books Borrowed from Library

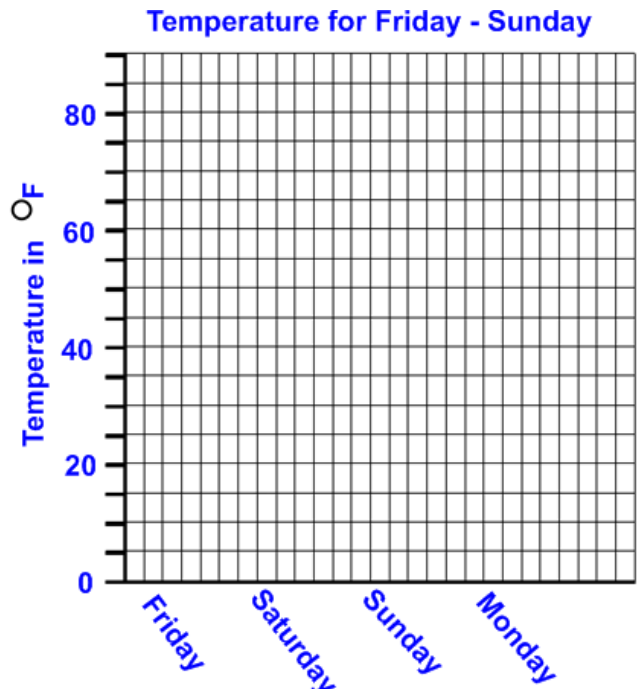
Day	No. of Books
Monday	5
Tuesday	15
Wednesday	10
Thursday	30



1. The number of books borrowed on Wednesday and Monday equal the number of books borrowed on which day? \_\_\_\_\_
2. How many more books were borrowed on Thursday than Tuesday? \_\_\_\_\_
3. How many books were borrowed altogether from Monday through Thursday? \_\_\_\_\_

Temperature from Friday - Sunday

Day	Temperature (deg. F)
Friday	65
Saturday	75
Sunday	70



4. How much warmer was Saturday than Friday? \_\_\_\_\_
5. If Monday's temperature is 15 degrees warmer than Friday's, what will the temperature be?  
\_\_\_\_\_

(Also show on the bar graph.)

6. Write in a label for Tuesday. Tuesday's temperature will be 5 degrees cooler than Saturday. Show this on the bar graph.

Graphs

Name: \_\_\_\_\_




Date: \_\_\_\_\_


Making Bar Graphs Using Data from Tables and Pictographs – Part 2

Homework

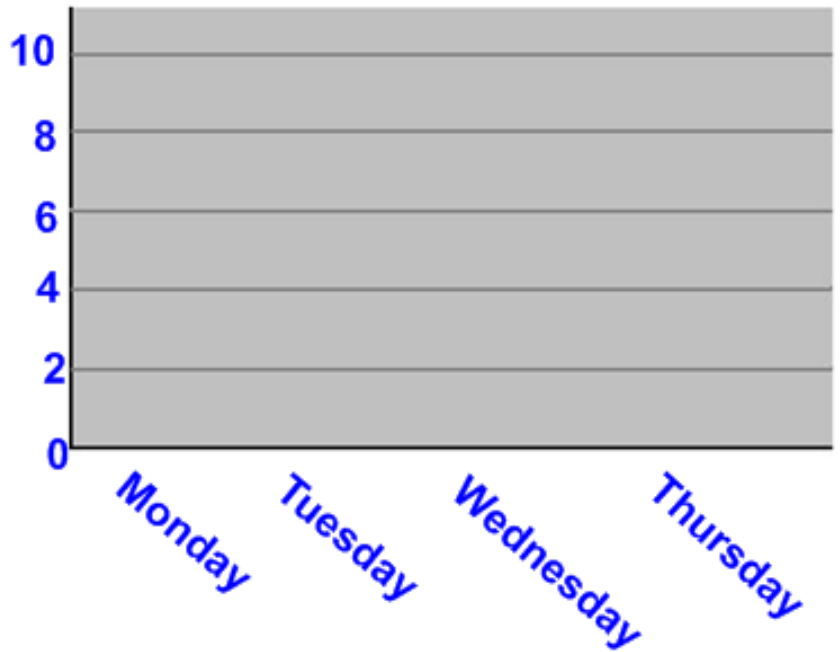
Use the pictograph to fill in the bar graph.

Dog Grooming Appointments at AstroPets

Day	No. of Dogs
Monday	
Tuesday	
Wednesday	

 = 2 dogs

### Dog Grooming Appts. at AstroPets



- How many dogs were groomed on Monday?  
\_\_\_\_\_
- How many more dogs were groomed on Tuesday than Wednesday?
- On Wednesday, they had 3 walk-ins (no appointment) in addition to their scheduled appointments. How many dogs did they groom altogether on Wednesday? \_\_\_\_\_
- On Thursday, there were five appointments. Show that on the graph.

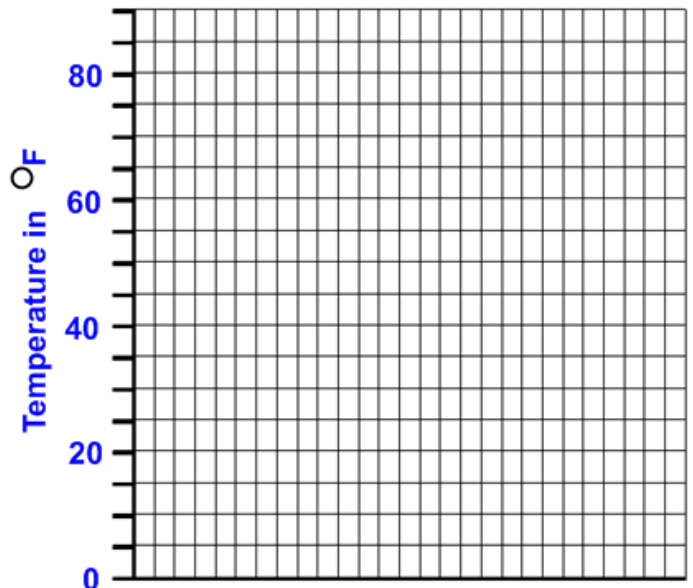
For the bar graph on the right, use the information from the table below.

Temperature from Tuesday - Thursday

Day	Temperature (deg. F)
Tuesday	45
Wednesday	65
Thursday	50

Make sure to include:

- Title
- Correctly label the days
- Fill in the bars



Line Plots – Part 1

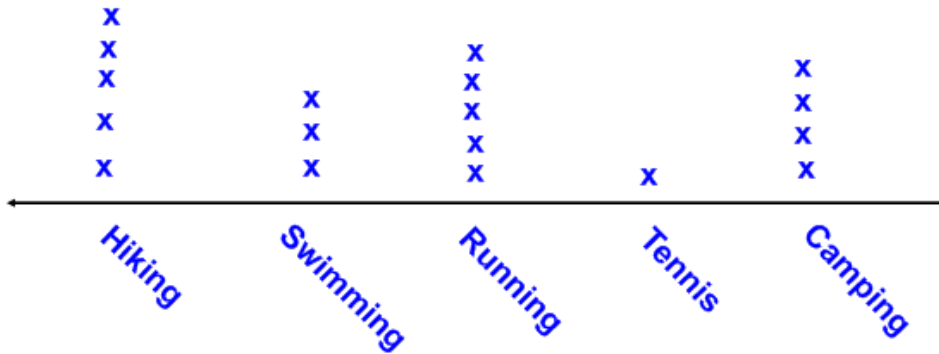
Classwork

**Favorite Food of Class 3T**



1. What is the title of this line plot? \_\_\_\_\_
2. What are the favorite foods? \_\_\_\_\_
3. Which food is the most popular? \_\_\_\_\_
4. How many more votes does it have than the least favorite? \_\_\_\_\_
5. How many students voted in total? \_\_\_\_\_

**Favorite Outdoor Activities**



6. Which is the least favorite sport? \_\_\_\_\_
7. How many people like hiking and camping? \_\_\_\_\_
8. How many more people like hiking than tennis? \_\_\_\_\_
9. Do the same number of people like hiking as running? \_\_\_\_\_
10. How many people took this survey? \_\_\_\_\_

Graphs

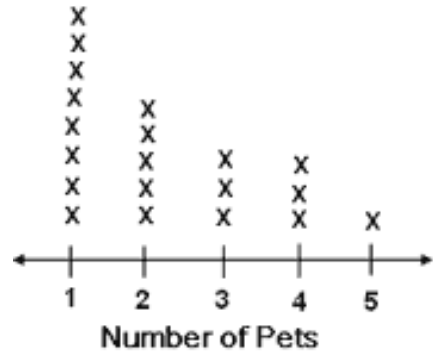
Name: \_\_\_\_\_

Date: \_\_\_\_\_

Line Plots – Part 1

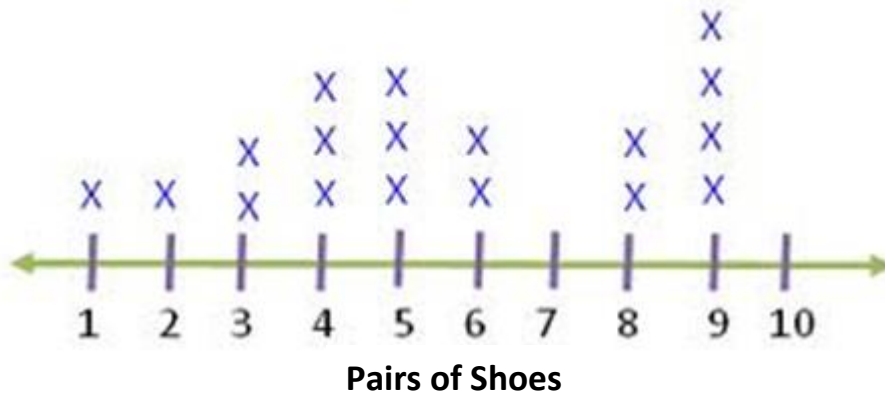
Homework

Use the line plot on the right to answer the following questions.



- How many people have 1 pet? \_\_\_\_\_
- How many people have 3 or more pets?  
\_\_\_\_\_
- How many people took part in this survey?  
\_\_\_\_\_
- How many people have 2 pets? \_\_\_\_\_
- How many people have 4 pets? \_\_\_\_\_

**Pairs of Shoes People Wear During the Week**



- How many people wear 3 different pairs of shoes during the week? \_\_\_\_\_
- How many people wear 1 pair of shoes during the week? \_\_\_\_\_
- How many more people wear 9 different pairs of shoes than 5 pairs of shoes? \_\_\_\_\_
- How many people wear 7 different pairs of shoes during the week? \_\_\_\_\_
- How many people took part in this survey? \_\_\_\_\_

Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Line Plots – Part 2

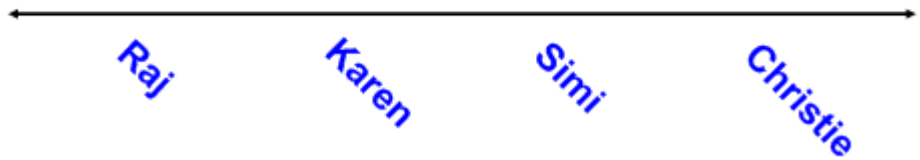
Classwork

Using the frequency and tally tables below, make line plots of the data.

Books Read

Student	No. of Books
Raj	5
Karen	4
Simi	7
Christie	6

Books Read



1. How many books did Simi and Christie read? \_\_\_\_\_
2. How many books were read altogether in the group? \_\_\_\_\_
3. How many more books did Simi read than Raj? \_\_\_\_\_

Favorite Hobbies of Class 3P

Hobby	Students
Reading	
Sports	
Music	
Art	

Favorite Hobbies of Class 3P



4. How many students are in Class 3P? \_\_\_\_\_
5. How many more people like art than sports? \_\_\_\_\_
6. How many people like sports and music? \_\_\_\_\_

Graphs

Name: \_\_\_\_\_




Date: \_\_\_\_\_


Line Plots – Part 2

Homework

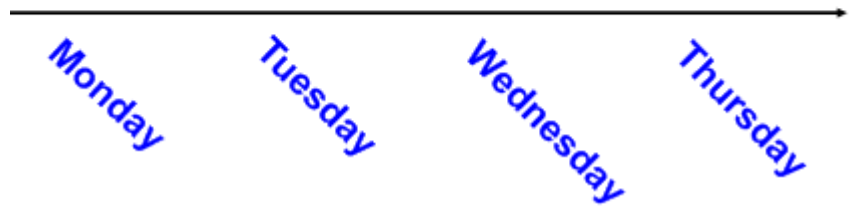
Using the pictograph, make a line plot of the data.

Dog Grooming Appointments at AstroPets





Day	No. of Dogs
Monday	
Tuesday	
Wednesday	

 = 2 dogs

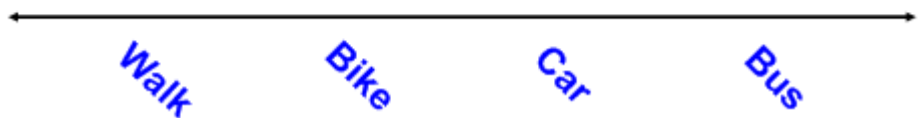
Dog Grooming Appointments at AstroPets



1. How many appointments did AstroPets have on Tuesday? \_\_\_\_\_
2. Thursday had four more appointments than Monday. Show that on the line plot. \_\_\_\_\_
3. How many more appointments did AstroPets have on Thursday than Wednesday?  
\_\_\_\_\_

Title: How Do We Get to School?	
Categories	Tallies
Walk	
Bike	
Car	
Bus	

How Do We Get to School?



4. What is the most popular way of getting to school? \_\_\_\_\_
5. How many students took part in this survey? \_\_\_\_\_
6. How many more students take the bus than ride in a car? \_\_\_\_\_

Graphs

Name: \_\_\_\_\_

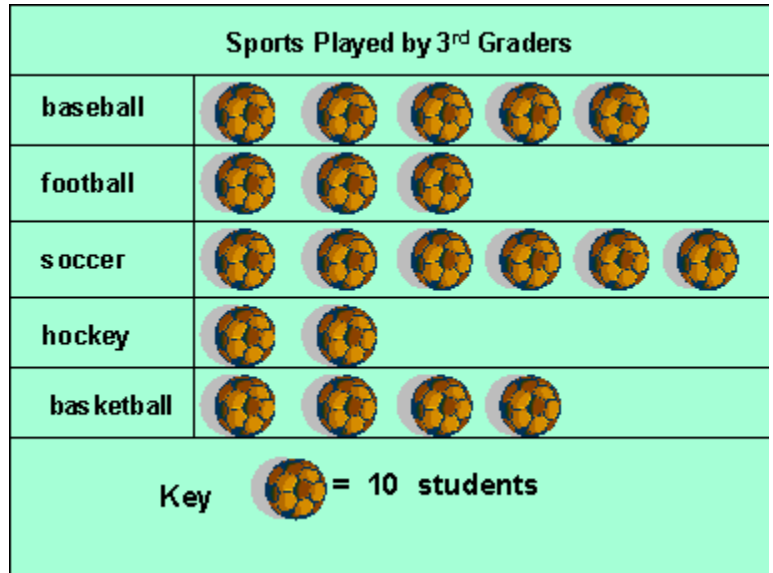
Date: \_\_\_\_\_

Problem Solving Using Graphs

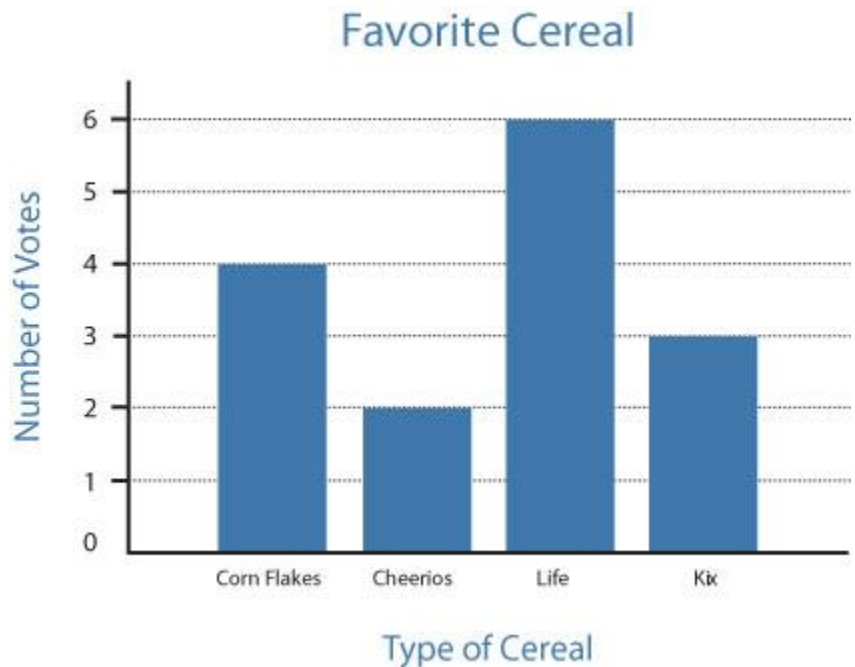
Classwork

Answer the following questions using the graphs.

1. How many 3<sup>rd</sup> graders play soccer?  
\_\_\_\_\_
2. How many more 3<sup>rd</sup> graders play football than hockey?  
\_\_\_\_\_
3. How many 3<sup>rd</sup> graders play baseball and basketball? \_\_\_\_\_
4. Baseball is equally played as football and which other sport?  
\_\_\_\_\_
5. How many play soccer and football? \_\_\_\_\_



6. What information is given from the bar graph on the right?  
\_\_\_\_\_
7. How many people voted for corn flakes and cheerios?  
\_\_\_\_\_
8. What is the most popular cereal according to this bar graph? \_\_\_\_\_
9. Which is the least popular?  
\_\_\_\_\_
10. How many people were polled in total if everyone voted once? \_\_\_\_\_

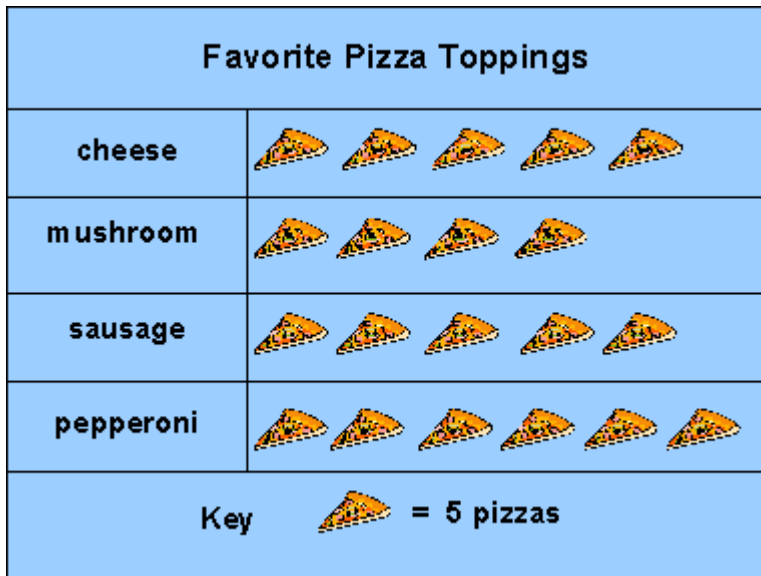
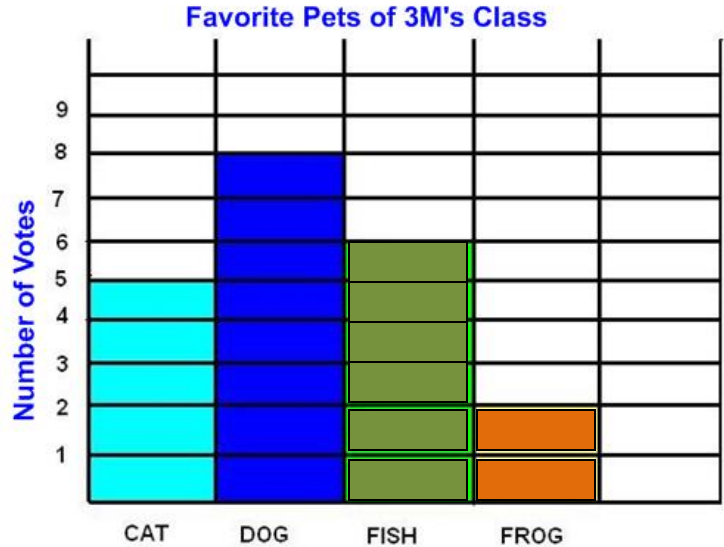


Problem Solving Using Graphs

Homework

Answer the following questions using the graphs.

- How many students voted dog as their favorite pet? \_\_\_\_\_
- How many students voted for fish and frog as their favorite pets?  
\_\_\_\_\_
- How many more students voted for cats than frogs? \_\_\_\_\_
- How many students are in 3M?  
\_\_\_\_\_
- Vote for your favorite pet. If it's already listed in the graph, shade in one vote. If your favorite pet is not listed, write a label at the end and fill in a vote.



- Which topping is the most popular?  
\_\_\_\_\_
- How many more people like cheese than mushroom? \_\_\_\_\_
- How many people like cheese and sausage? \_\_\_\_\_
- 10 more people voted for mushrooms. Show that on the pictograph.  
\_\_\_\_\_
- Using the information from question 9, how many more people like mushroom than sausage now? \_\_\_\_\_



## Unit Review – Graphs

### Multiple Choice

Use the tally table on the right to answer 1 – 4.

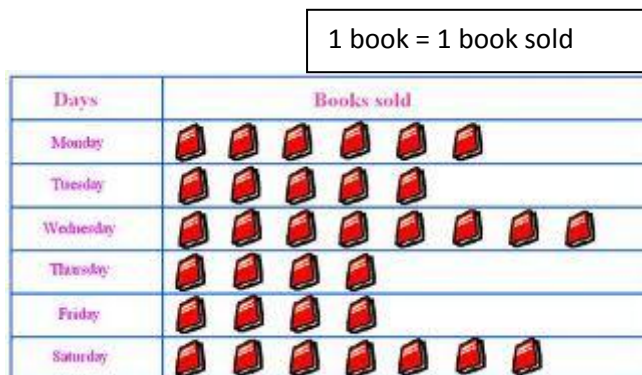
- How many people voted Coke as their favorite drink?
  - 20
  - 19
  - 18
  - 14
- How many people voted milk as their favorite drink?
  - 12
  - 15
  - 17
  - 19
- Which drink had the least amount of votes?
  - Apple Juice
  - Pepsi
  - Coke
  - Milk
- How many more people like Apple Juice than Pepsi?
  - 2
  - 3
  - 4
  - 5

**Favorite Drinks of Mr. Smith’s Class**

Drinks	Votes
Apple Juice	
Pepsi	
Coke	
Milk	

Use the pictograph on the right to answer 5 – 7.

- How many books were sold on Monday?
  - 3
  - 4
  - 5
  - 6
- How many more books were sold on Wednesday than Friday?
  - 4
  - 5
  - 6
  - 7



Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

7. How many books were sold on Tuesday and Wednesday?
  - a. 11
  - b. 12
  - c. 13
  - d. 14

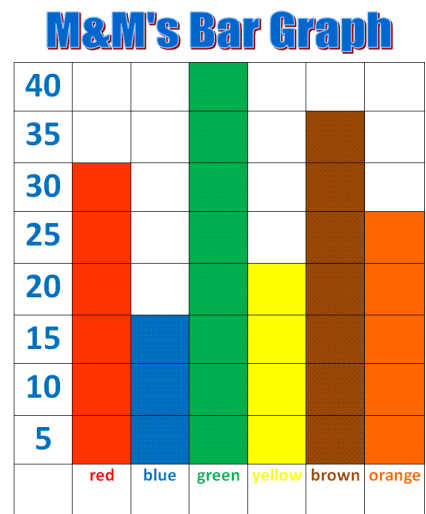
Use the pictograph on the right to answer 8 – 11.

8. How many students like breakfast food as their favorite school lunch?
  - a. 8
  - b. 10
  - c. 12
  - d. 4
9. How many students voted chicken nuggets as their favorite school lunch?
  - a. 7
  - b. 8
  - c. 10
  - d. 14
10. How many more students voted for chicken nuggets than pizza?
  - a. 3
  - b. 5
  - c. 6
  - d. 7
11. Which food has the same amount of votes as pizza?
  - a. Chicken nuggets
  - b. Breakfast



Use the bar graph on the right to answer 12 – 14.

12. Students in Ms. Loren's class counted M&M's of each color that came in a bag and made a bar graph of the results. How many brown M&M's were in the bag?
  - a. 35
  - b. 50
  - c. 15
  - d. 5
13. How many blue and red M&M's were in the bag?
  - a. 40
  - b. 45
  - c. 50
  - d. 55



Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_


14. How many more green M&M's were in the bag than orange M&M's?

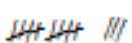
- a. 5
- b. 10
- c. 15
- d. 20

Short Constructed Response

15. How is 24 written in tally marks? \_\_\_\_\_

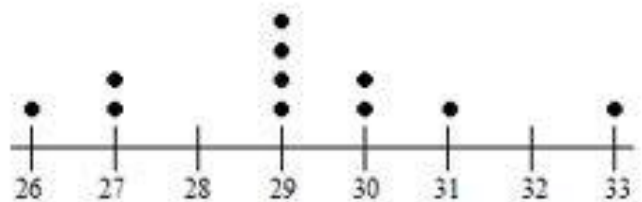
16. How is 12 written in tally marks? \_\_\_\_\_

17. What is  ? \_\_\_\_\_

18. What is  ? \_\_\_\_\_

Use the line plot at the right to answer 19 – 21.

Line Plot: Number of Students per Classroom



19. How many classrooms have 30 students?  
\_\_\_\_\_

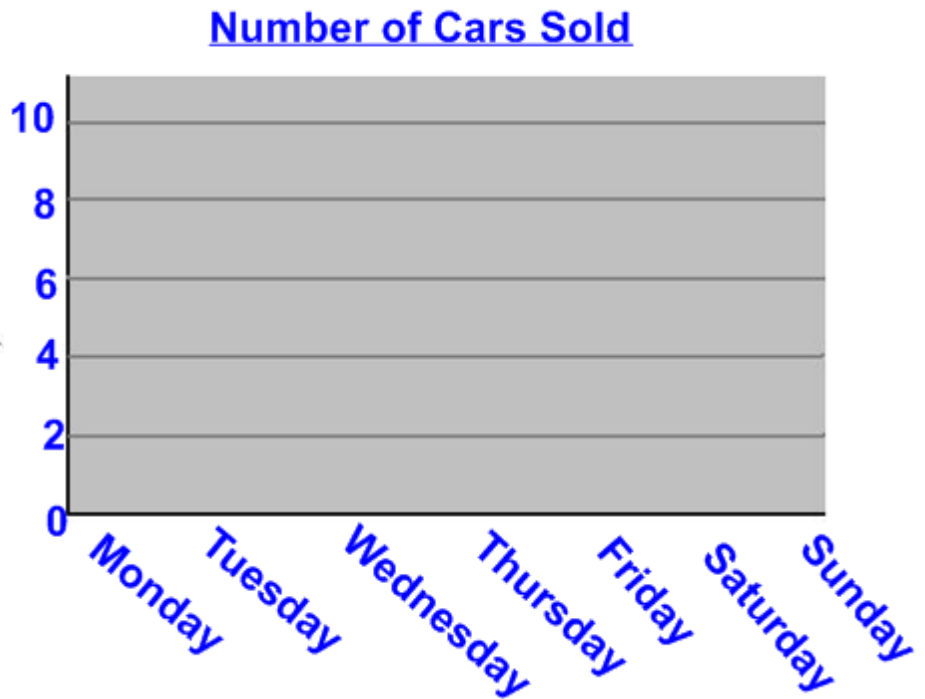
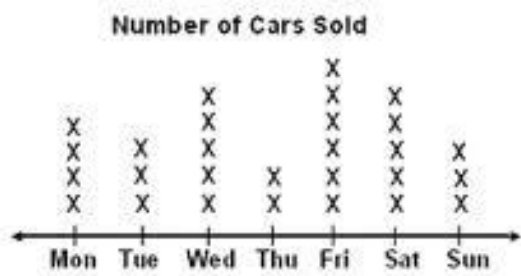
20. How many more classrooms have 30 students than 31 students?  
\_\_\_\_\_

21. How many classrooms have 29 students?  
\_\_\_\_\_

Extended Response

22. Use the line plot to fill in the bar graph.

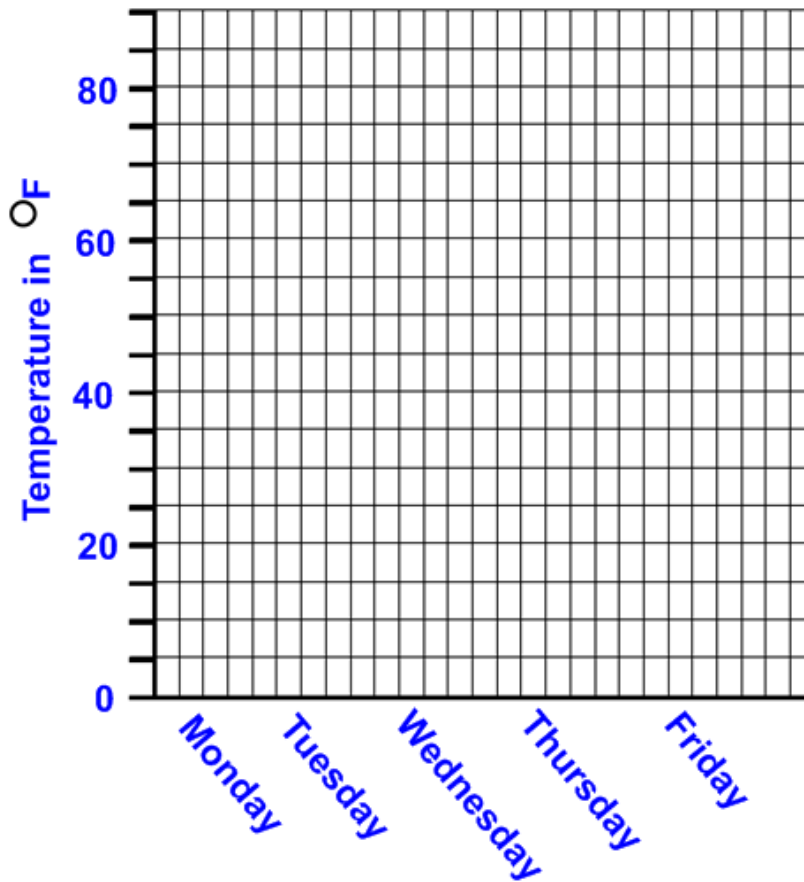
- a. Which day was the busiest for the car dealership?
- b. How many more cars did the dealership sell on Saturday than Thursday?
- c. How many cars were sold in total?
- d. If 5 more cars were sold at the last minute on Sunday, how many were sold in total on Sunday?



23. Mrs. D.'s class recorded the temperature daily for one week.  
 Here are the results: Monday: 65 degrees, Tuesday: 70 degrees, Wednesday: 60 degrees, Thursday: 75 degrees, and Friday: 70 degrees.

- a. What day was the highest temperature?
- b. Which day was the coolest in temperature?
- c. How many degrees warmer was the warmest day than the coolest day?
- d. Sheila recorded the temperature on Saturday. It was ten degrees warmer than Monday's. What was the temperature on Saturday?

**Temperature for the School Week**

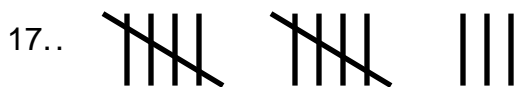
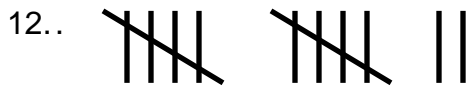


### Answer Key

#### Tally and Frequency Tables-Part 1

##### Classwork

- 1. 4
- 2. 16
- 3. 2
- 4. 9
- 5. 13
- 6. 2
- 7. 13
- 8. 20
- 9. 8
- 10. 19



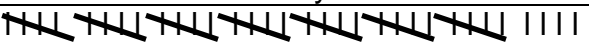

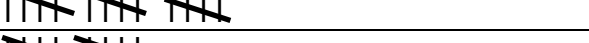
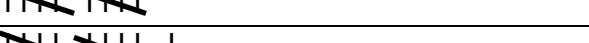
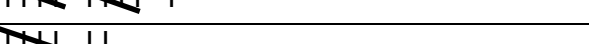
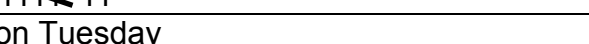
Graphs

Name: \_\_\_\_\_

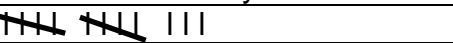
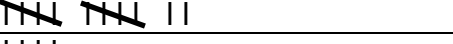
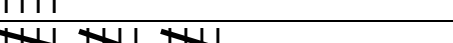

Date: \_\_\_\_\_




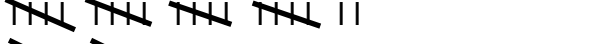








21. Pets of J.P Elementary School's 3<sup>rd</sup> Grade Class

Pet	Tally	Frequency
Cat		39
Dog		28
Hamster/Rat/Mouse		15
Bird		10
Turtle		11
Lizard		7

22. Lunch Order for Bill's Office on Tuesday

Food	Tally	Frequency
Pizza		13
Salad		12
Burger		4
Sandwich		15

Homework

1. 10
2. 11
3. 4
4. 12
5. 8
6. 3
7. 18
8. 25
9. 13
10. 9
11. 
12. 
13. 
14. 
15. 
16. 
17. 
18. 
19. 
20. 





What's in Your Pencil Case?

Item	Tally	Frequency
Pencil	/// // III	13
Pen	/// // IIII	14
Eraser	/// III	8

6. 13
7. Pens. One more.
8. No
9. 6

**Tally and Frequency Tables-Part 3**

Classwork

Baked Item	Tally
Cupcakes	/// // IIII
Muffins	/// // II
Donuts	/// // II
Brownies	/// // I

Baked Item	Tally
Cupcakes	/// // // IIII
Muffins	/// //
Donuts	/// // III
Brownies	/// // // II

Baked Item	Tally	Frequency
Cupcakes	/// // // // // // III	33
Muffins	/// // // // II	22
Donuts	/// // // // //	25
Brownies	/// // // // // III	28

1. 33
2. 6
3. Cupcakes

Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

4. 66

Homework

Pizzas Sold in One Hour at John's Pizza

Pizza	Tally
Pepperoni	/// // //
Plain	/// // III
Mushroom	/// // // I
Combo	/// // IIII

Pizzas Sold in One Hour at John's Pizza

Pizza	Frequency
Pepperoni	14
Plain	15
Mushroom	20
Combo	16

Pizza	Tally	Frequency
Pepperoni	/// // // // // I	26
Plain	/// // // // // III	28
Mushroom	/// // // // // // // I	36
Combo	/// // // // // //	30

1. 30
2. No
3. 120
4. \$1,200

**Reading Information in Pictographs**

Classwork

1. Chocolate
2. Pistachio and vanilla
3. 10
4. 3
5. 12
6. Liz
7. 11

Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

- 8. 9
- 9. 5
- 10.2

Homework

- 1. Thursday. 9 cakes.
- 2. Friday. 33 cakes.
- 3. 9 more
- 4. 21 more
- 5. Wednesday and Thursday
- 6. Wednesday and Thursday
- 7. No
- 8. 22
- 9. 15
- 10.6

**Making Pictographs-Part 1**

Classwork

**Profit Made at 3D's Bake Sale** \$ = 5 dollars





Profit Made at 3D's Bake Sale

Day	Frequency
1 <sup>st</sup> Friday	\$45
2 <sup>nd</sup> Friday	\$50
3 <sup>rd</sup> Friday	\$35
4 <sup>th</sup> Friday	\$55

Day	Profit
1 <sup>st</sup> Friday	\$ \$ \$ \$ \$ \$ \$ \$ \$
2 <sup>nd</sup> Friday	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
3 <sup>rd</sup> Friday	\$ \$ \$ \$ \$ \$ \$ \$
4 <sup>th</sup> Friday	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

- 1. 4<sup>th</sup> Friday
- 2. 3<sup>rd</sup> Friday
- 3. \$185
- 4. 13
- 5. \$15

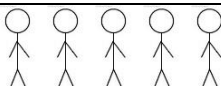
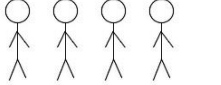
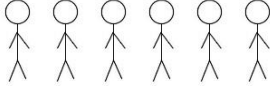
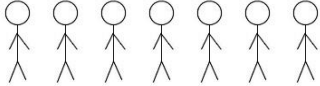
**Dogs Groomed by the Pet Store Staff**  = 2 dogs

Staff	Dogs Groomed
Michelle	
Matt	
Shelly	
Phil	

- 6. 4
- 7. 16
- 8. Yes
- 9. 10
- 10. 14

Homework

**Class Size in the Elementary School**  = 10 students


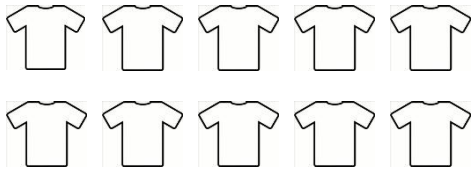
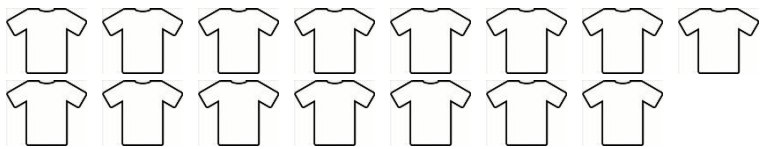
Class	Class Size
Kindergarten	
1 <sup>st</sup> Grade	
2 <sup>nd</sup> Grade	
3 <sup>rd</sup> Grade	

- 1. 3<sup>rd</sup> Grade
- 2. 10
- 3. 70
- 4. 9
- 5. 130

**T-Shirts Sizes Ordered for School Spirit Day**  = 2 shirts

T-Shirts Ordered for School Spirit Day

Size	Number of T-Shirts
Small	
Medium	
Large	

Size	Number of T-Shirts
Small	
Medium	
Large	

6. 30
7. 10
8. 50
9. 4
10. 40





**Making Pictographs-Part 2**

Classwork

**Favorite Hobbies of Class 3P**  = 1 student

Favorite Hobbies of Class 3P

Hobby	Students
Reading	
Sports	
Music	
Art	









Hobby	Students
Reading	
Sports	
Music	
Art	

1. Art
2. 1
3. Sports
4. 19
5. 9

**Weather for the Month of January** One picture = 1 day

Weather for the Month of January




Weather	No. of Days
Sunny	
Cloudy	
Rainy	
Snow	

Weather	Number of Days
Sunny 	
Cloudy 	
Rainy 	
Snow 	

- 6. 5
- 7. 2
- 8. 3
- 9. 8
- 10. 10

Homework

**Movie Attendance**  = 100 people




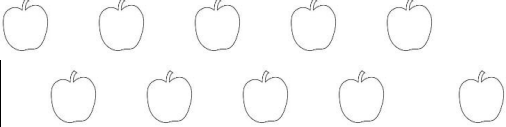
Day	Number of People
Friday	
Saturday	
Sunday	

- 1. Saturday
- 2. 300
- 3. 1600
- 4. 1000
- 5. 1300

**Apples Picked on Saturday**

Employee	No. of Apples
Fred	15
Karen	21
Will	24

**Apples Picked on Saturday = 3 apples**

Employee	Number of Apples Picked
Fred	
Karen	
Will	
Shawna	

6. 9
7. 36
8. Refer to pictograph
9. 15
- 10.No

**Reading Bar Graphs**

Classwork

1. Students' Favorite Juices
2. Yellow
3. 10
4. Red
5. 14
6. Our Favorite Sports
7. Soccer, Softball, Basketball, Other
8. Soccer
9. 2
- 10.3

Homework

1. Hip Hop, Classical, Rock, Jazz
2. Jazz
3. Rock
4. 4
5. No

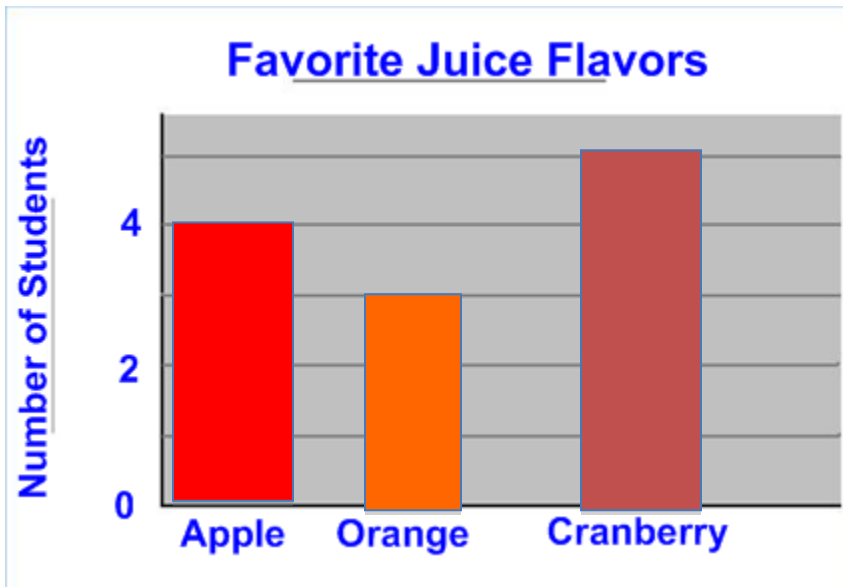
Graphs

Name: \_\_\_\_\_

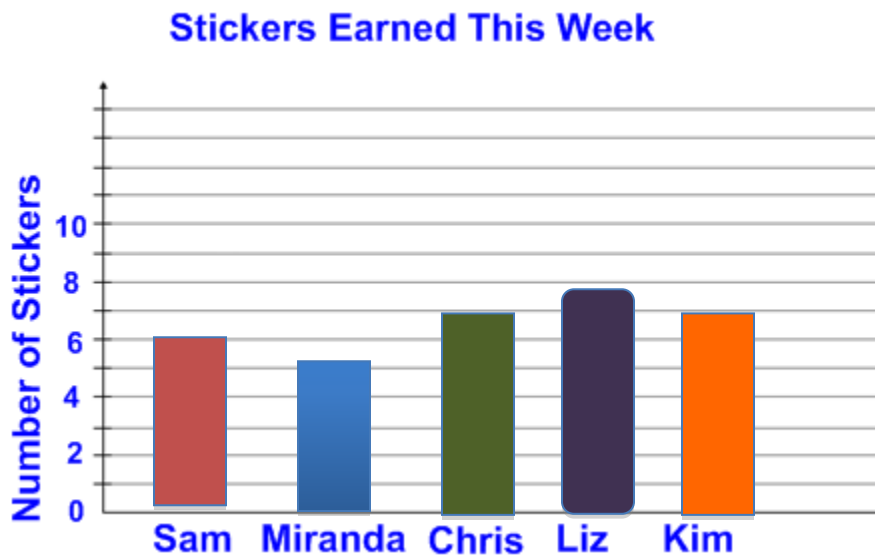
Date: \_\_\_\_\_

- 6. Setter
- 7. 5
- 8. Setter
- 9. 45
- 10.90

**Making Bar Graphs Using Data from Tables and Pictographs – Part 1**  
Classwork



- 1. 3
- 2. 9
- 3. 2



- 4. 3
- 5. Chris and Kim



Graphs

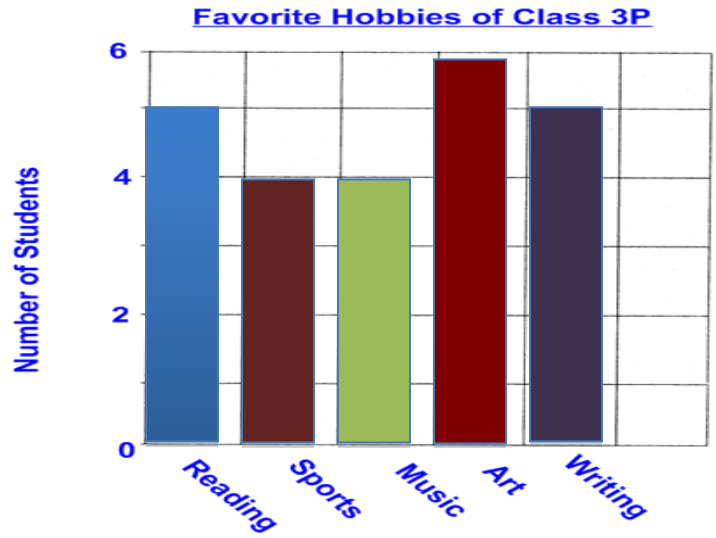
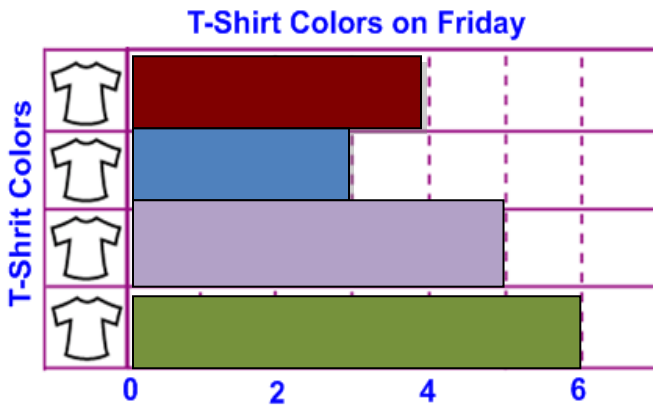
Name: \_\_\_\_\_

Date: \_\_\_\_\_

6. 2

Homework

1. 13
2. Shown on graph
3. 1

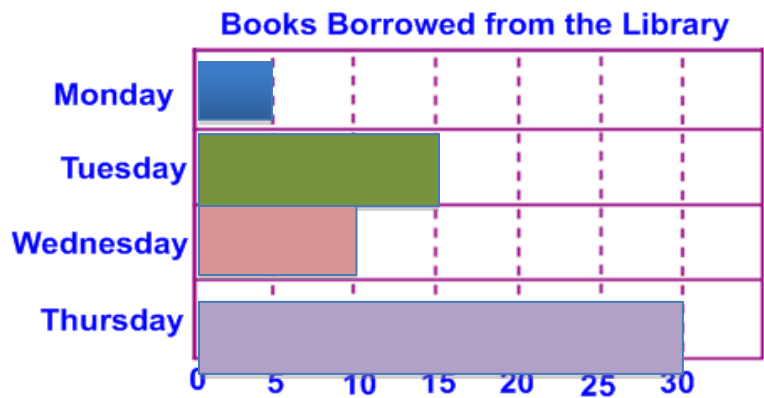
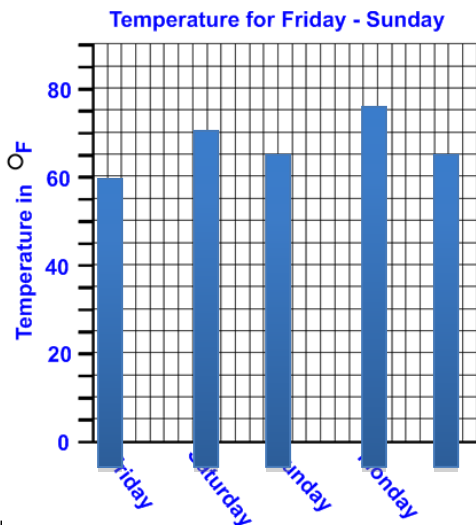


4. 5
5. 7
6. 4
7. 18

**Making Bar Graphs Using Data from Tables and Pictographs – Part 2**

Classwork

1. Tuesday      4. 10°F
2. 15            5. 80°F
3. 60            6. 70°F

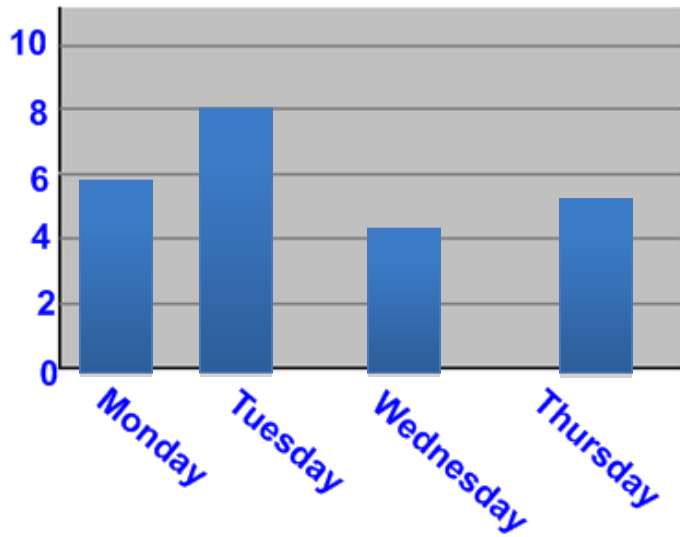


Making Bar Graphs Using Data from Tables and Pictographs – Part 2

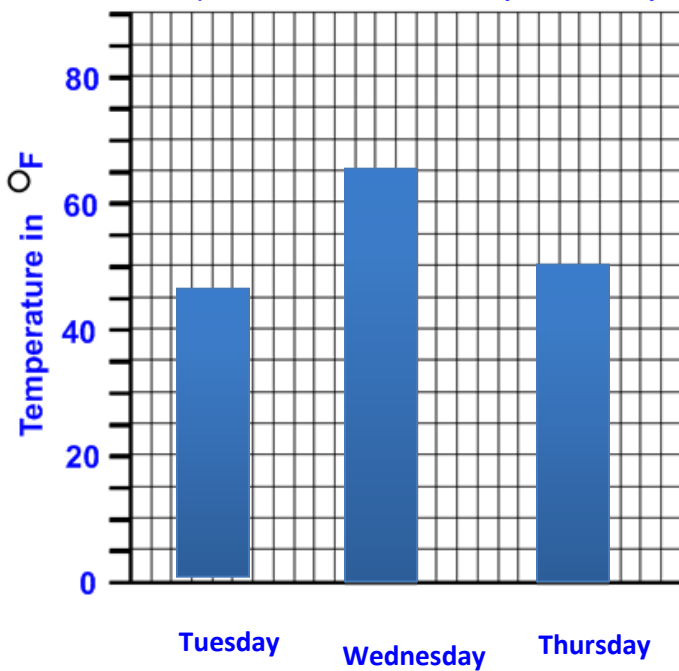
Homework

1. 6
2. 4
3. 7
4. Shown on graph

**Dog Grooming Appts. at AstroPets**



**Temperature from Tuesday-Thursday**



**Line Plots – Part 1**

Classwork

1. Favorite Food of Class 3T
2. Pizza, Hamburger, Chicken Fingers, Spaghetti, Mac 'N' Cheese
3. Spaghetti
4. 2
5. 19
6. Tennis
7. 9
8. 4
9. Yes
10. 18

Homework

1. 8
2. 7
3. 20
4. 5
5. 3
6. 2
7. 1
8. 1
9. 0
10. 18

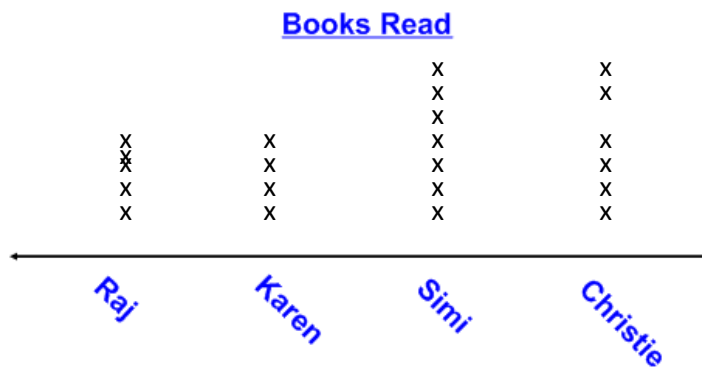
**Line Plots – Part 2**

Classwork

1. 13

2. 22

3. 2



Graphs

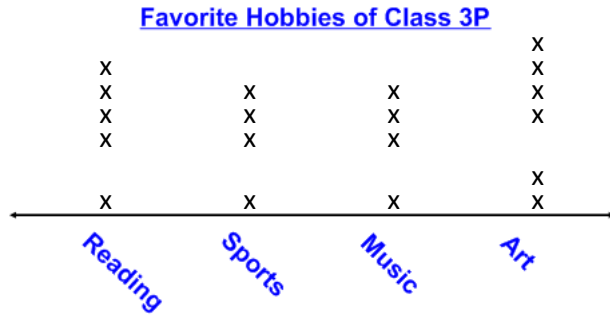
Name: \_\_\_\_\_

Date: \_\_\_\_\_

4. 19

5. 2

6. 8

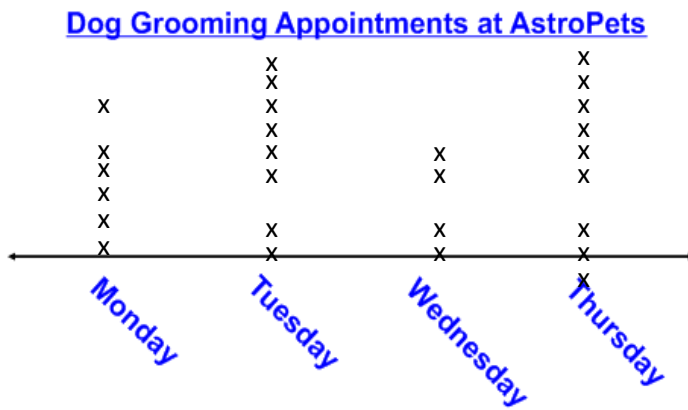


Homework

1. 8

2. 10 (Shown on graph)

3. 6

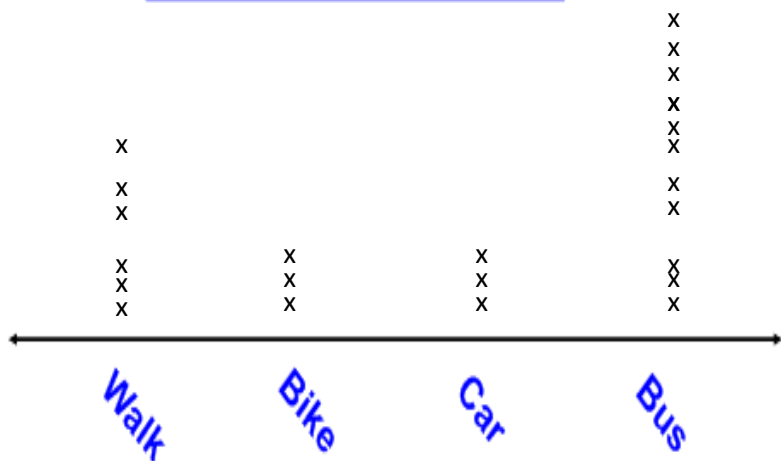


4. Bus

5. 26

6. 8

**How Do We Get to School?**



### **Problem Solving Using Graphs**

#### Classwork

1. 60
2. 10
3. 90
4. Hockey
5. 90
6. Which cereals are people's favorites
7. 6
8. Life
9. Cheerios
10. 15

#### Homework

1. 8
2. 8
3. 3
4. 21
5. Shading will vary
6. Pepperoni
7. 5
8. 50
9. 2 more pizzas will be added
10. 5

#### Unit Review

1. b
2. c
3. b
4. c
5. d
6. a
7. c
8. a
9. d
10. c
11. b

Graphs

Name: \_\_\_\_\_


Date: \_\_\_\_\_

12. a

13. b

14. c

15. 

16. 

17. 9

18. 13

19. 2

20. 1

21. 4

22. Cars Sold...

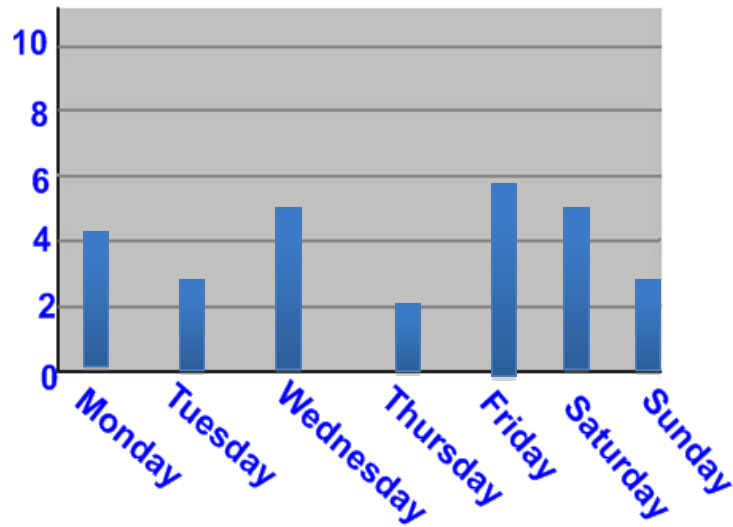
a. Friday

b. 3

c. 28

d. 8

**Number of Cars Sold**



23. Temperatures

a. Thursday

b. Wednesday

c. 15 degrees

d. 75°

**Temperature for the School Week**

