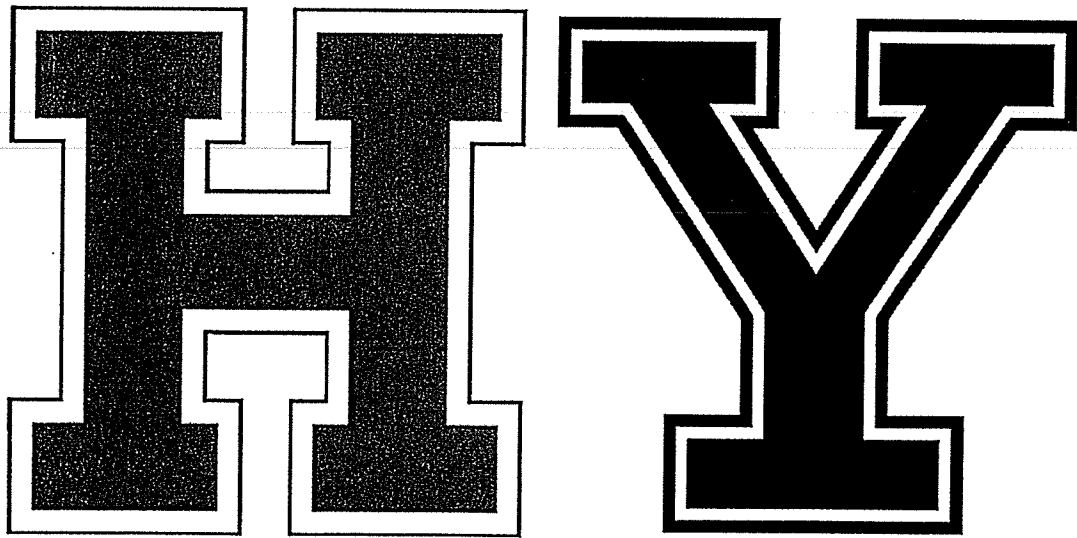


**3rd Grade
Problem
Set
Exit Ticket**



Module 6

Name: _____

Answer Key:

Pizza Toppings

Color Toppings: How Many?



brown



gray



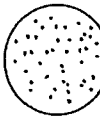
green



red



black



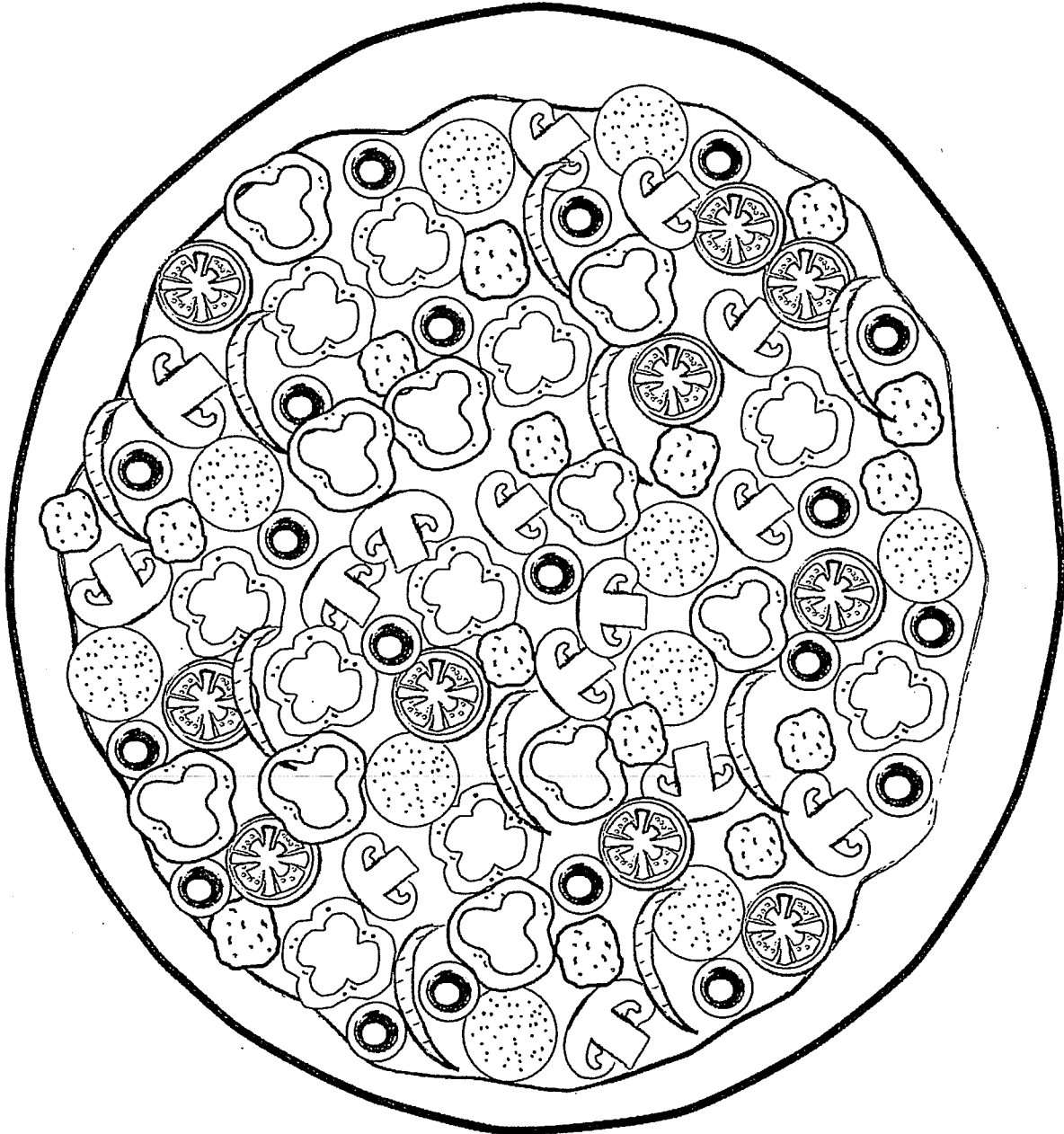
orange



yellow








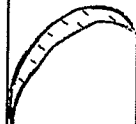


purple



Name: _____

Directions: Color one space for each topping.

20								
19								
18								
17								
16								
15								
14								
13								
12								
11								
10								
9								
8								
7								
6								
5								
4								
3								
2								
1								
0								

Name _____




















Date _____



PICTURE GRAPHS 3A - BUG HUNT

Salamander Class went on a bug hunt looking for bugs in different habitats.

Each  represents 5 bugs.

Long grass								
Short grass								
Under logs								
Pond								
On leafy plants								

- 1) 30 bugs were found in under logs. Show this in the picture graph.
- 2) What was the most common place to find bugs? _____
How many bugs were found there? _____
- 3) What was the least common place to find bugs? _____
How many bugs were found there? _____
- 4) How many more bugs were found in the long grass than the short grass?

- 5) Double the number of bugs were found in the pond than on leafy plants.
True or false? _____
- 6) How many bugs were found in total that day? _____

Name _____

Date _____














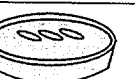





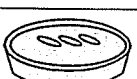





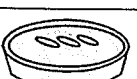



4

PICTURE GRAPHS 3B - AT THE PIE SHOP

A pie shop sells a range of different pies. Here are the sales figures for the number of pies sold for each day in a week.

Each  represents 20 pies.

Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							

1) How many pies were sold on Thursday? _____

2) Which day were the most pies sold? _____

How many pies were sold on that day? _____

3) How many more pies were sold on Tuesday than Wednesday? _____

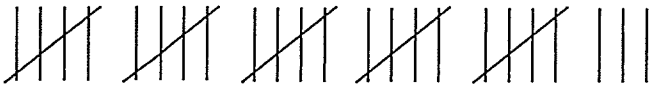
4) There were more pies sold on the last two days than the first four days. True or false? _____

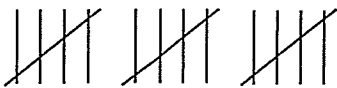
5) How many pies were sold in total that week? _____

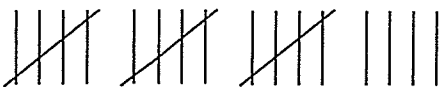
6) Draw a bar graph for the number of pies sold that week.


Counting Tally Marks


Write the number shown by the tally marks in each question.

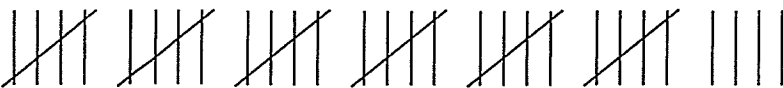
1) 


2) 

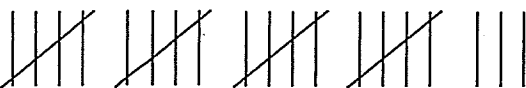
3) 

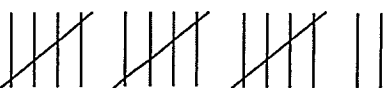
4) 

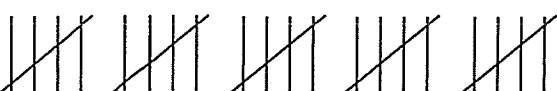
5) 

6) 

7) 

8) 

9) 

10) 

Name: _____

6

Drawing Tally Marks

Sheet 1

Draw tally marks to show each number.

1) 15

2) 18

3) 9

4) 25

5) 31

6) 27

7) 10

8) 6

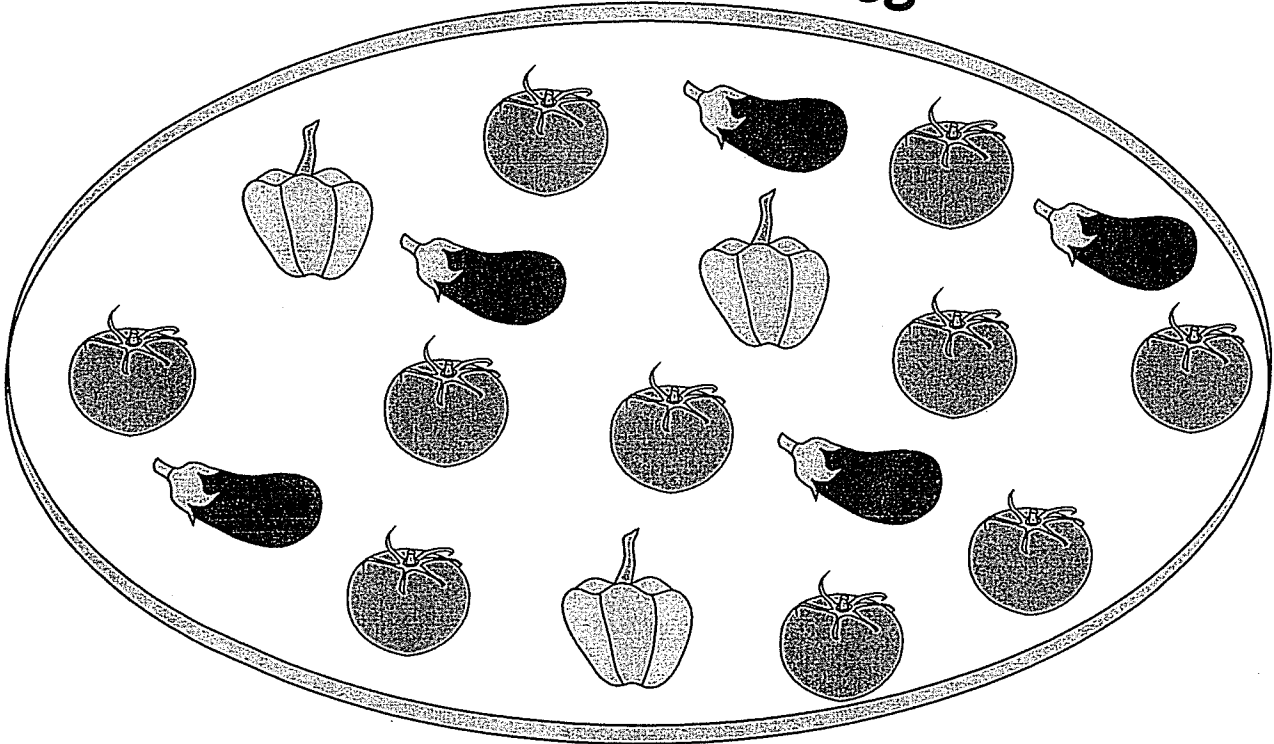
9) 22

10) 13



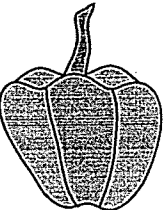
Name : _____

Tally the Vegetables

Sheet 1



Count the vegetables and draw tally marks to show the count.

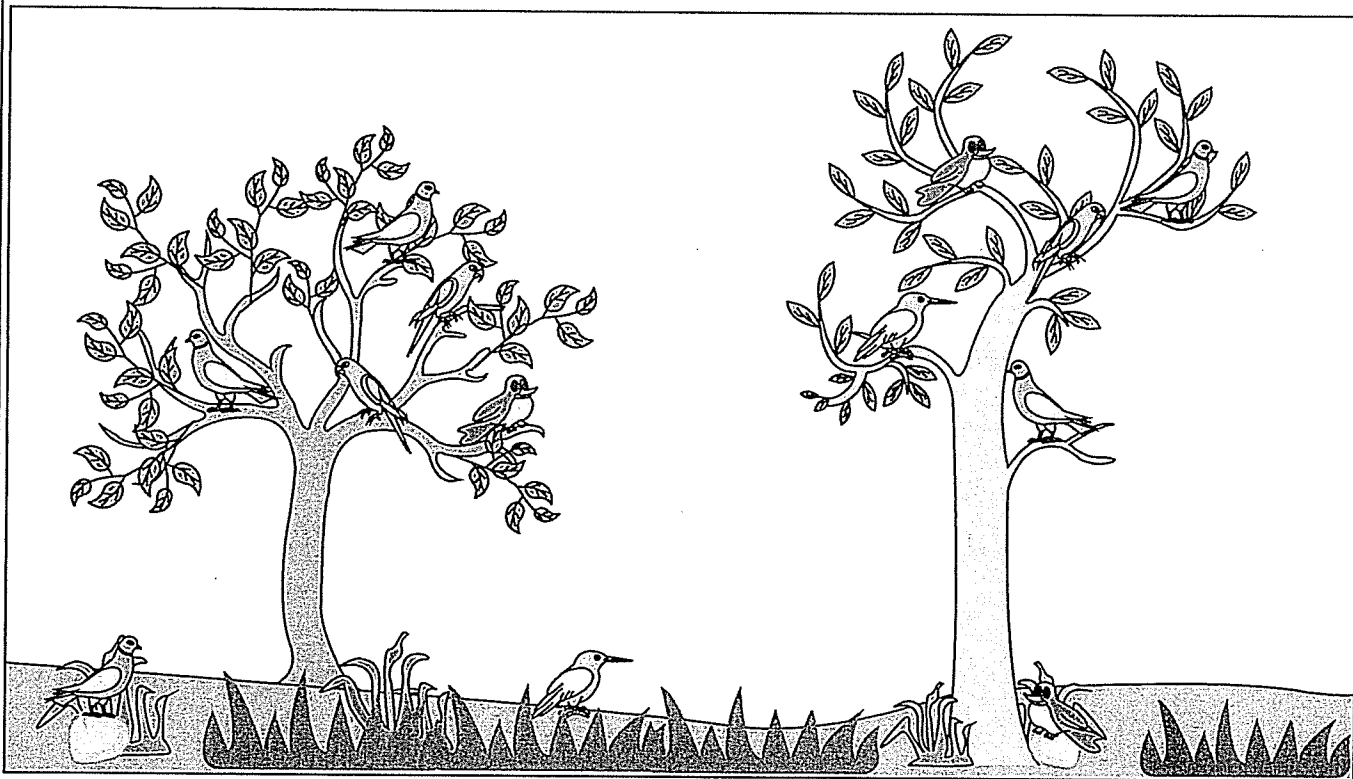
Vegetables	Tally Marks
	
	
	

Name : _____

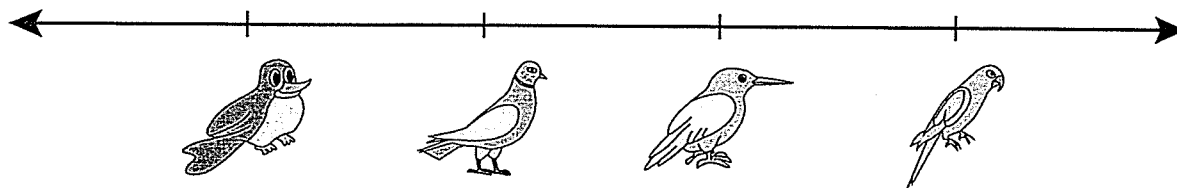
Making a Line Plot

ES1

Mark has many trees in his backyard. On a warm summer's day, he strolls through and finds a variety of chirping birds perched on the trees. Make a line plot to show the number of birds of each kind.



Chirping Birds



Birds

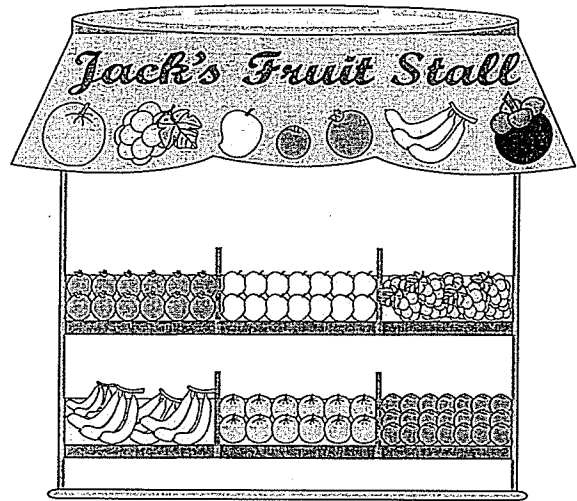
Name: _____

Making a Line Plot

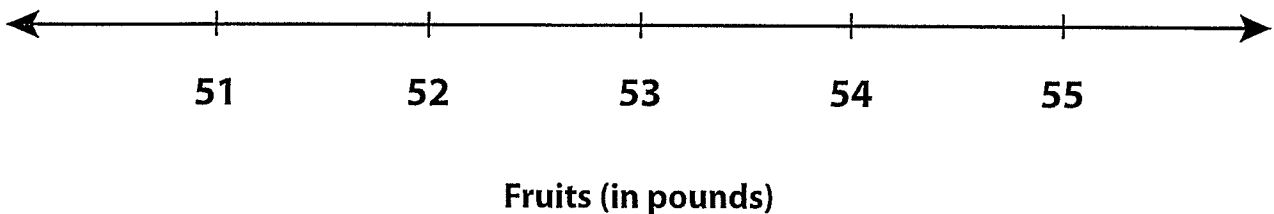
MS1

Jack runs a fruit stall in the local farmers' market. He records the amount of fruit sold (in pounds) over a period of 14 days. Make a line plot to represent the data below.

54	55	55	53	51
51	54	53	55	51
52	55	55	53	



Jack's Stall

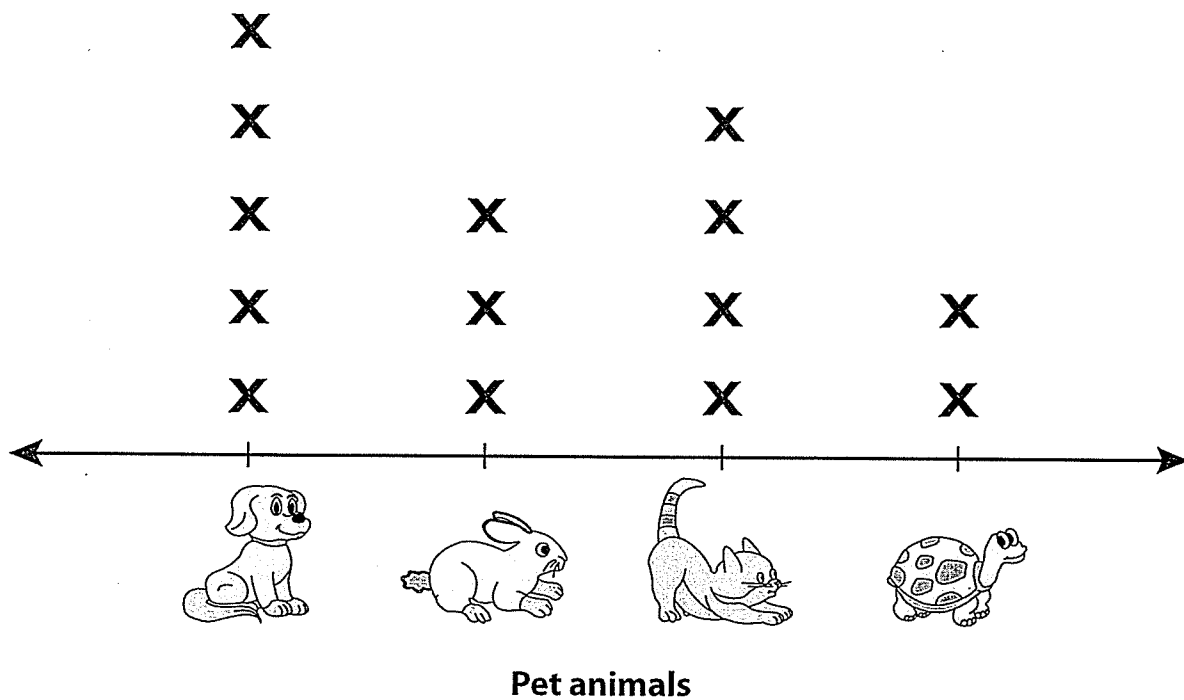


Interpreting Line Plot

ES1

A small survey was conducted to determine the most popular pet on Sesame Street. The line plot displays the number of families that keep dogs, rabbits, cats, and tortoises as pets.

Favorite Pets







- 1) Which animal is kept as a pet by just two families on Sesame Street? _____
- 2) How many families keep a pet cat? _____
- 3) Which is the most preferred pet on Sesame Street? _____
- 4) How many families keep a pet rabbit? _____
- 5) How many families in total keep pets? _____

Name : _____

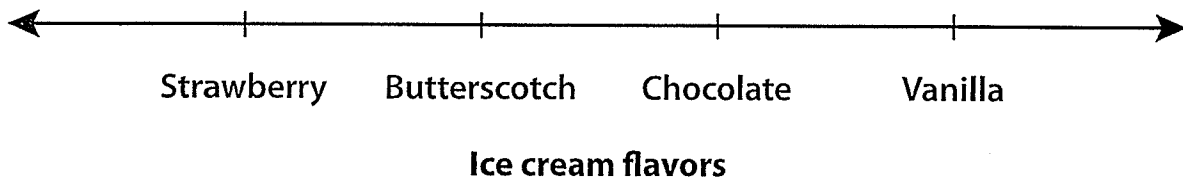
Make and Interpret

ES1

Ron treated his friends to ice creams on his birthday. Each of them ordered for ice-cream cones of different flavors. Read the data given below, make a line plot, and answer the questions.

Strawberry	Butterscotch	Chocolate	Vanilla
			
4	3	5	2

Ice-Cream Cones



- 1) How many flavors of ice cream did they order altogether? _____
- 2) Find the number of strawberry flavored ice-cream cones that were ordered in all. _____
- 3) How many orders were placed for chocolate and vanilla flavored ice-cream cones in total? _____
- 4) Which was the most preferred ice cream flavor? _____
- 5) How many more strawberry flavored ice-cream cones were ordered than butterscotch? _____

Name _____

Date _____



PROBLEM SOLVING - THE CAT FAMILY (METRIC)

Here are facts about some of the members of the cat family.

Name	Average Weight (kg)	Speed (kph)
Cheetah		121
Lynx	26	47
Lion	190	77
Cougar	73	69
Leopard	67	58
Tiger		



1) Use the information below to complete the information in the table:

- The cheetah is 7kg lighter than a leopard.
- The tiger can run 13kph faster than a lynx.
- The tiger is 37kg heavier than a lion.

2) Put the animals in order of weight, from lightest to heaviest.

3) How much heavier is a cougar than a lynx? _____ kg

4) How much faster is a cheetah than a leopard? _____ kph

5) Tyger says "The cheetah is more than twice as fast as a leopard." Is he right? _____

6) Tyger says "A lion is a faster and heavier animal than a tiger." Is he right? _____

7) Tyger says "A cougar would be heavier than 3 lynxes." Is he right? _____

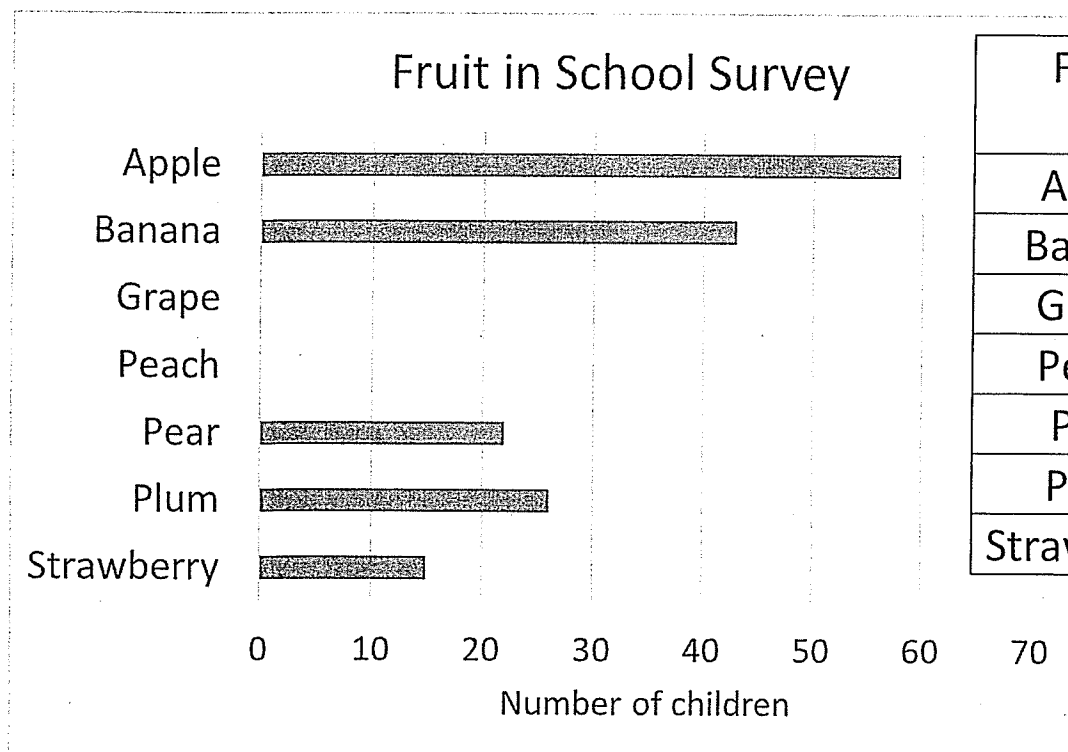
Name

Date



BAR GRAPHS SHEET 3C - FRUIT SURVEY

Children in a school recorded what fruit they brought in.



Fruit	Number of children
Apple	58
Banana	
Grape	27
Peach	11
Pear	22
Plum	26
Strawberry	

- 1) Use the data in the table to fill in the missing bars for Grape and Peach.
- 2) Estimate the number of children who brought in strawberries and bananas and write down your estimates in the table.
- 3) Have a look at the table below and write 'true', 'false' or 'can't tell' in each box.

Statement	True, False or Can't Tell
Twice as many children chose pears as plums.	
Apples and bananas were the most common fruit children brought in.	
Most children in the school like apples.	
Half as many children chose pears as apples.	

Name _____

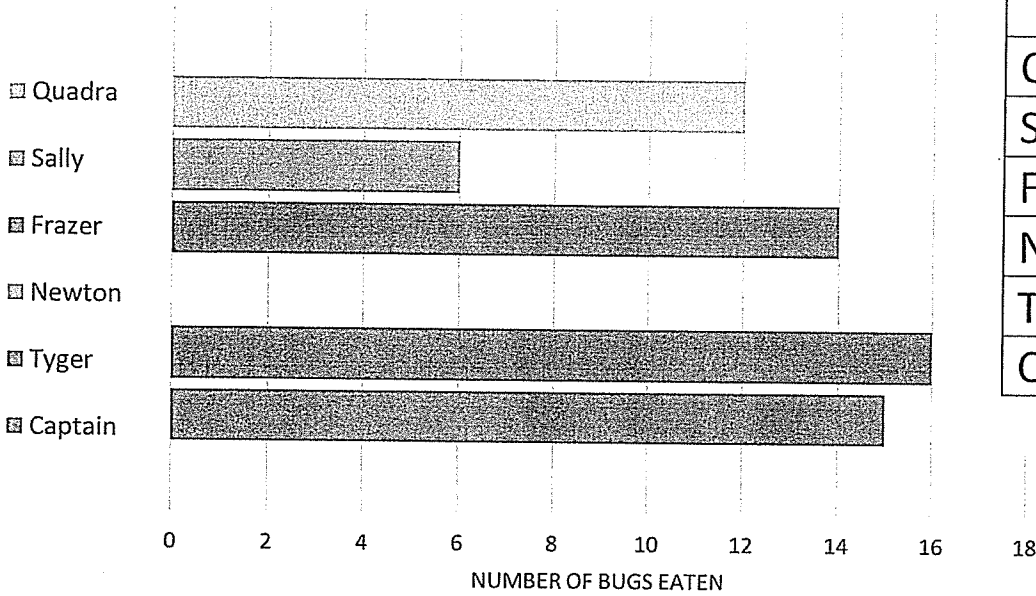
Date _____



BAR GRAPHS SHEET 3B - BUG EATING CONTEST

The Salamanders had a bug-eating contest. Each salamander was given a minute to see how many bugs they could eat. Here are the results.

Bug Eating Contest



Salamander	Bugs eaten
Quadra	
Sally	6
Frazer	14
Newton	7
Tyger	16
Captain	

- 1) Fill in the missing data in the table for Quadra and Captain.
- 2) Draw a bar to show how many bugs Newton ate.
- 3) Which salamander ate the most bugs? _____
- 4) How many more bugs did Quadra eat than Sally? _____
- 5) How many more bugs did Tyger eat than Newton? _____
- 6) Captain ate more bugs than Sally and Quadra put together. Is this true or false? _____
- 7) Which 2 salamanders ate exactly 20 bugs altogether? _____

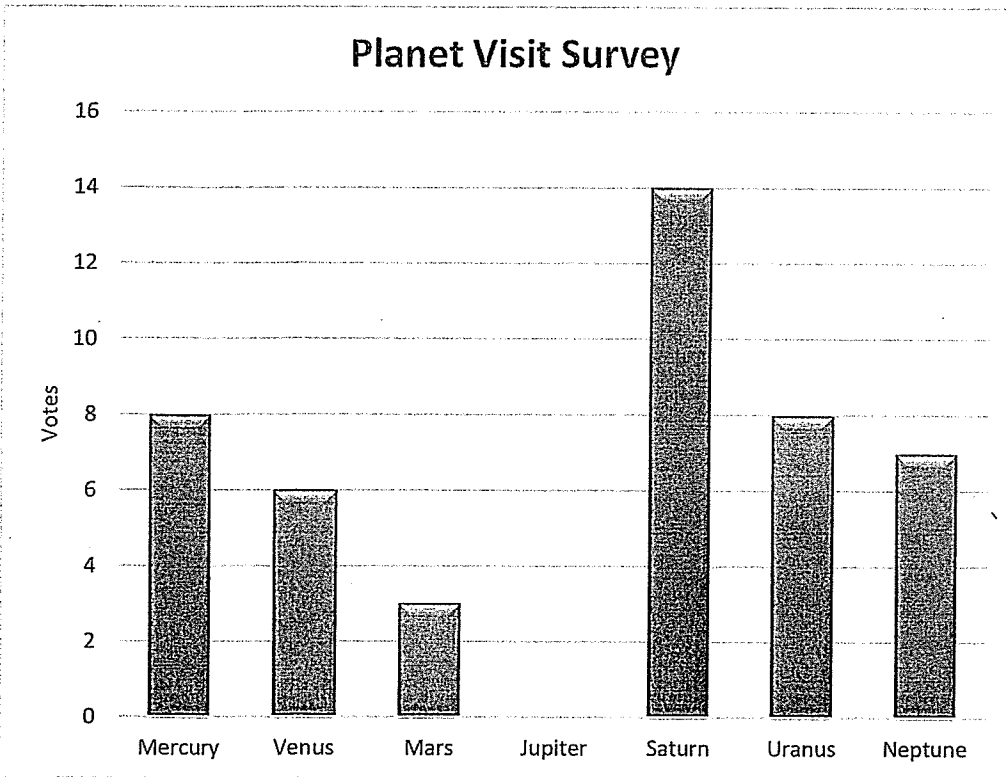
Name _____

Date _____



BAR GRAPHS SHEET 3A - PLANET SURVEY

Each child in Newt class selected two planets that they would like to visit.



Planet	Votes
Mercury	
Venus	6
Mars	3
Jupiter	11
Saturn	14
Uranus	8
Neptune	

- Fill in the missing data in the table for Mercury and Neptune.
- Draw a bar to show how many votes Jupiter got.
- Which was the most popular planet to visit? _____
- How many more votes did Saturn get than Uranus? _____
- How many more votes did Mercury get than Mars? _____
- Saturn got more votes than the 3 least popular planets put together.
True or false? _____
- Which two planets got the same number of votes?

Wednesday March 17, 2021

Name _____

Date _____

16

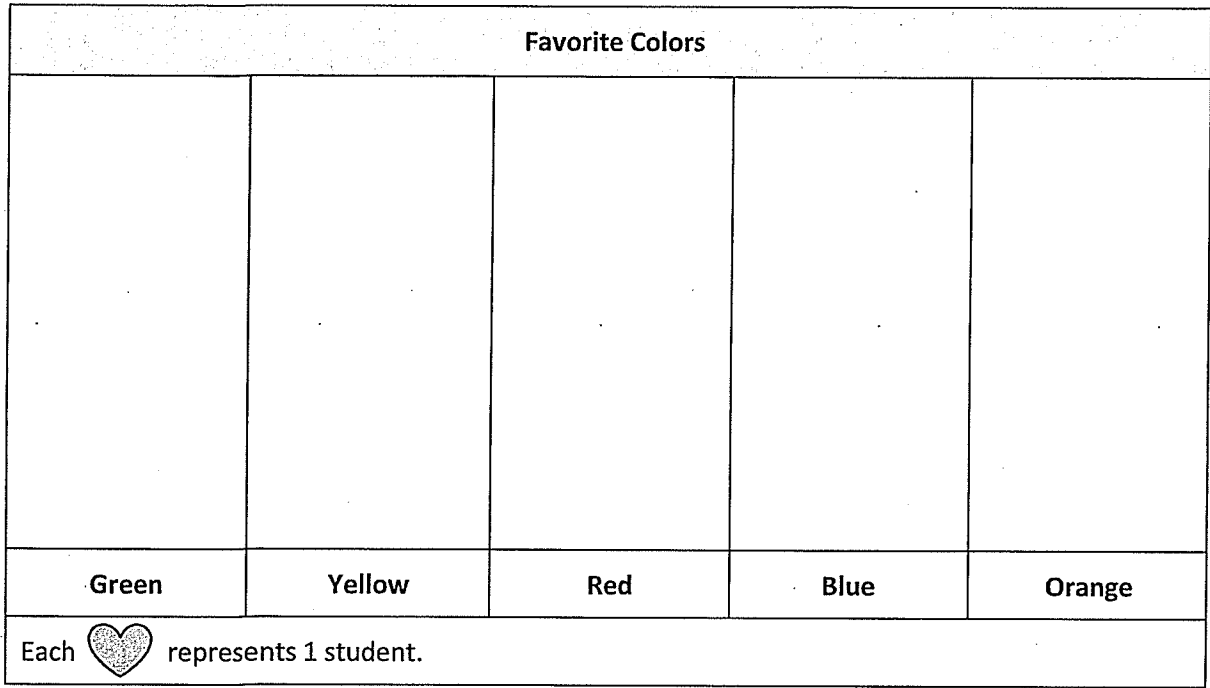
1. "What is your favorite color?" Survey the class to complete the tally chart below.

Favorite Colors	
Color	Number of Students
Green	
Yellow	
Red	
Blue	
Orange	

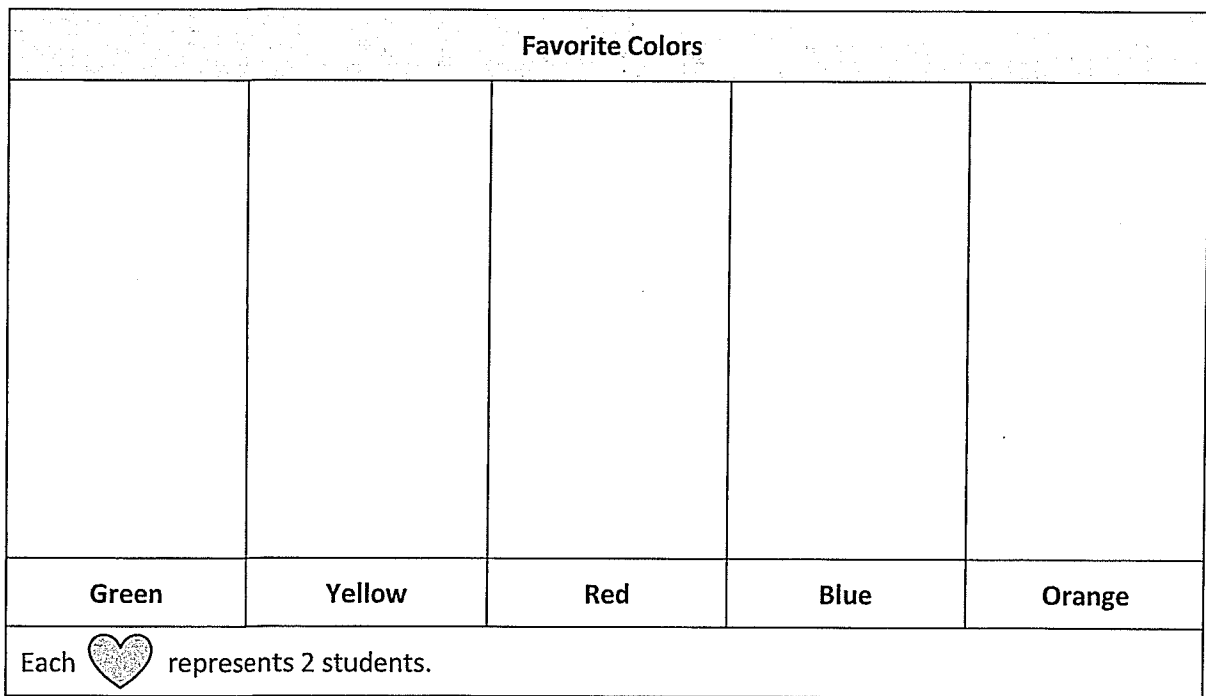
2. Use the tally chart to answer the following questions.
- How many students chose orange as their favorite color?
 - How many students chose yellow as their favorite color?
 - Which color did students choose the most? How many students chose it?
 - Which color did students choose the least? How many students chose it?
 - What is the difference between the number of students in parts (c) and (d)? Write a number sentence to show your thinking.
 - Write an equation to show the total number of students surveyed on this chart.

3. Use the tally chart in Problem 1 to complete the picture graphs below.

a.



b.



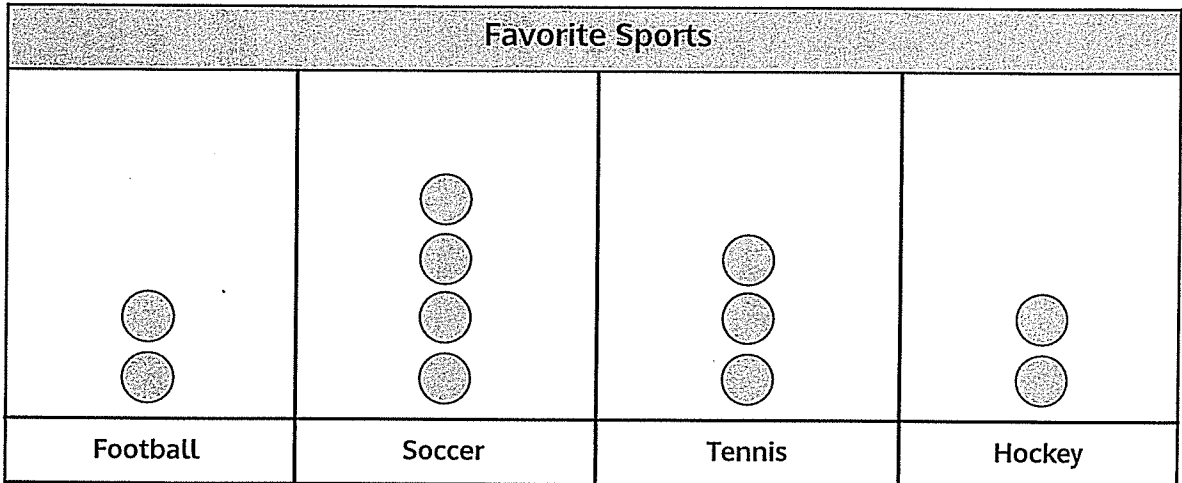
Lesson 1 G:3 M:6	EXIT TICKET
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18

Name: _____ Date: _____

Complete: Class: _____

1. The picture graph below shows data from a survey of students' favorite sports.



- a. The same number of students picked _____ and _____ as their favorite sport.



b. How many students picked tennis as their favorite sport?

[Dashed rectangular box for answer]

c. How many more students picked soccer than tennis? Use a number sentence to show your thinking.

[Dashed rectangular box for answer]

d. How many total students were surveyed?

[Dashed rectangular box for answer]



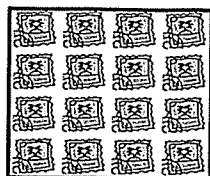
Thursday March 18, 2021

Name _____

Date _____

20

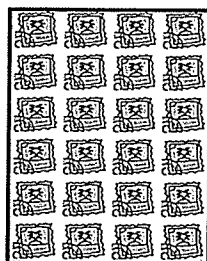
1. Find the total number of stamps each student has. Draw tape diagrams with a unit size of 4 to show the number of stamps each student has. The first one has been done for you.



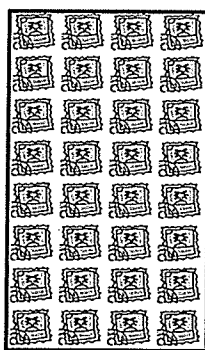
Dana




Tanisha



Raquel



Anna

Each  represents 1 stamp.

Dana:



Tanisha:

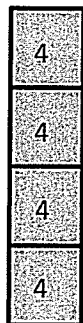
Raquel:

Anna:

2. Explain how you can create vertical tape diagrams to show this data.

3. Complete the vertical tape diagrams below using the data from Problem 1.

a.



Dana

Tanisha

Raquel

Anna

b.



Dana

Tanisha

Raquel

Anna

- c. What is a good title for the vertical tape diagrams?
- d. How many total units of 4 are in the vertical tape diagrams in Problem 3(a)?
- e. How many total units of 8 are in the vertical tape diagrams in Problem 3(b)?
- f. Compare your answers to parts (d) and (e). Why does the number of units change?
- g. Mattaeus looks at the vertical tape diagrams in Problem 3(b) and finds the total number of Anna's and Raquel's stamps by writing the equation $7 \times 8 = 56$. Explain his thinking.

Lesson 2
G:3 M:6

EXIT TICKET

22

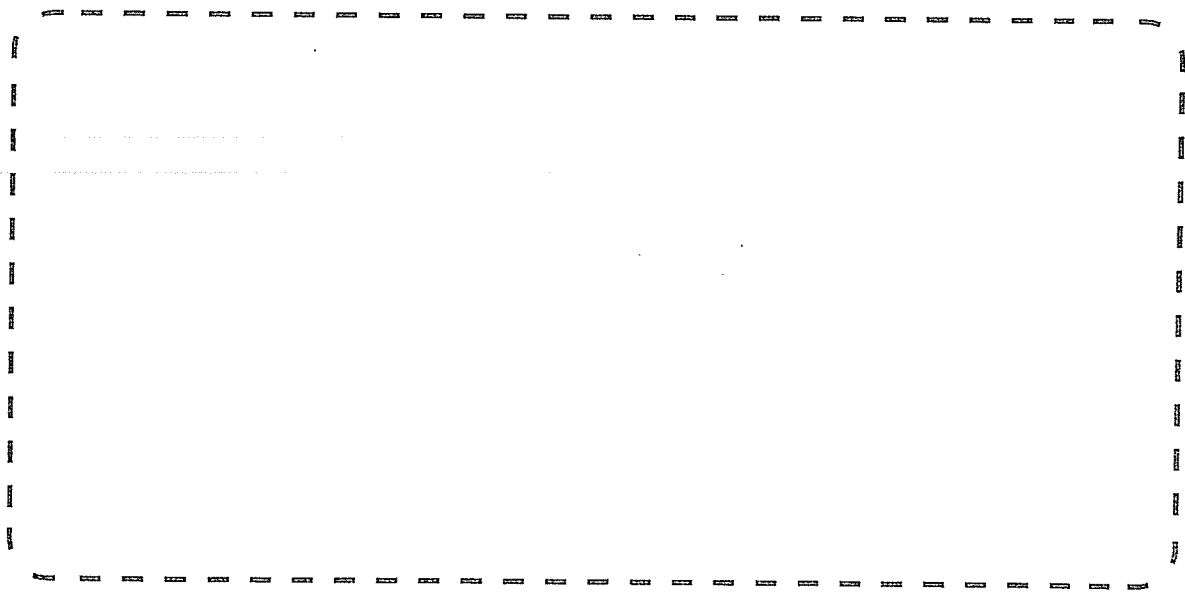
Name: _____ Date: _____

Complete: Class: _____

1. The chart below shows a survey of the book club's favorite type of book.

Draw a picture graph that represents the data.

Book Club's Favorite Type of Book	
Type of Book	Number of Votes
Mystery	12
Biography	16
Fantasy	20
Science Fiction	8



Friday March 19, 2021

22

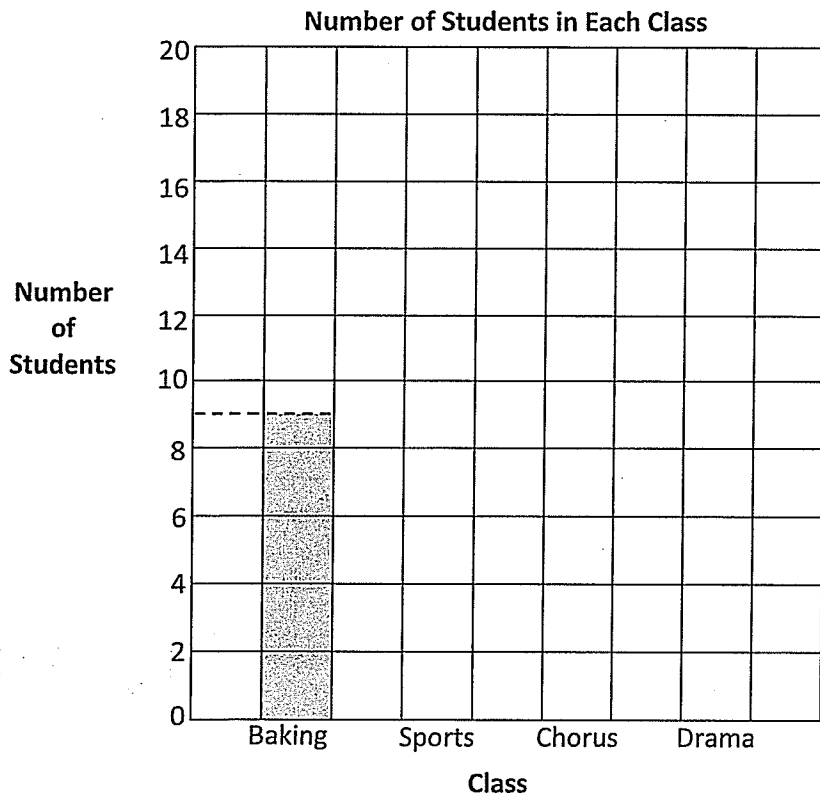
Name _____

Date _____

1. This table shows the number of students in each class.

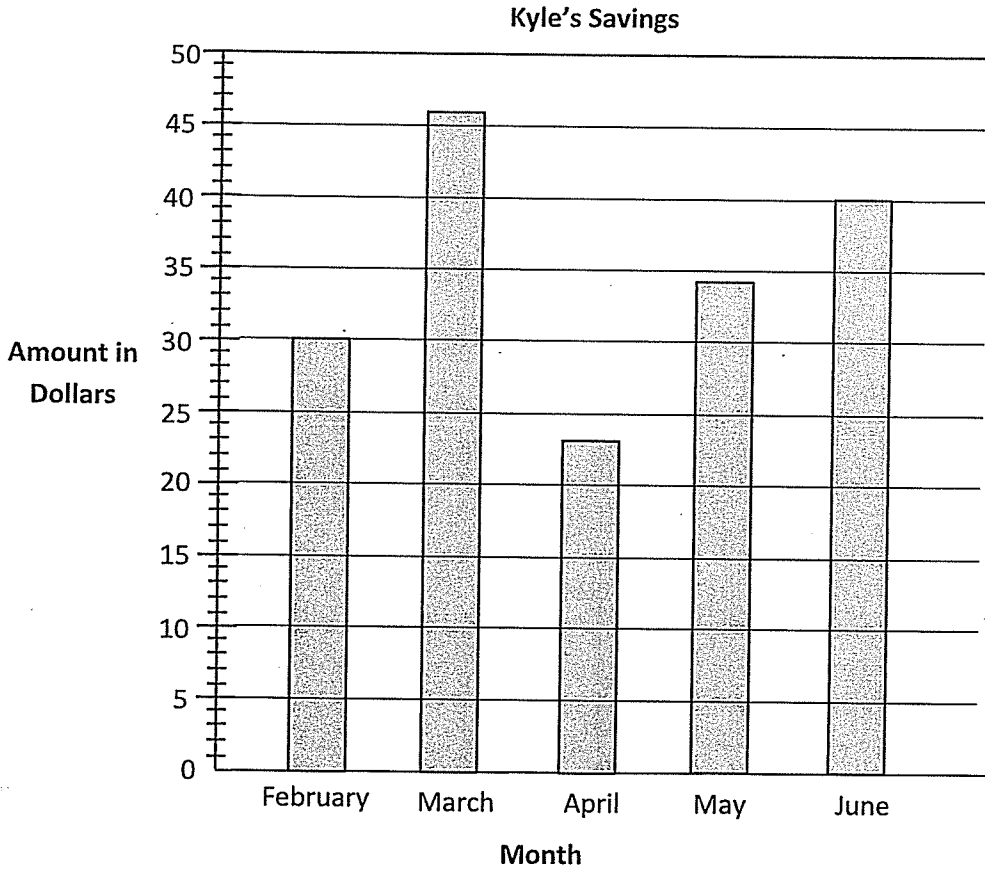
Number of Students in Each Class	
Class	Number of Students
Baking	9
Sports	16
Chorus	13
Drama	18

Use the table to color the bar graph. The first one has been done for you.



- What is the value of each square in the bar graph?
- Write a number sentence to find how many total students are enrolled in classes.
- How many fewer students are in sports than in chorus and baking combined? Write a number sentence to show your thinking.

2. This bar graph shows Kyle's savings from February to June. Use a straightedge to help you read the graph.



- How much money did Kyle save in May?
 - In which months did Kyle save less than \$35?
 - How much more did Kyle save in June than April? Write a number sentence to show your thinking.
 - The money Kyle saved in _____ was half the money he saved in _____.
3. Complete the table below to show the same data given in the bar graph in Problem 2.

Months	February				
Amount Saved in Dollars					



Lesson 3 G:3 M:6	EXIT TICKET
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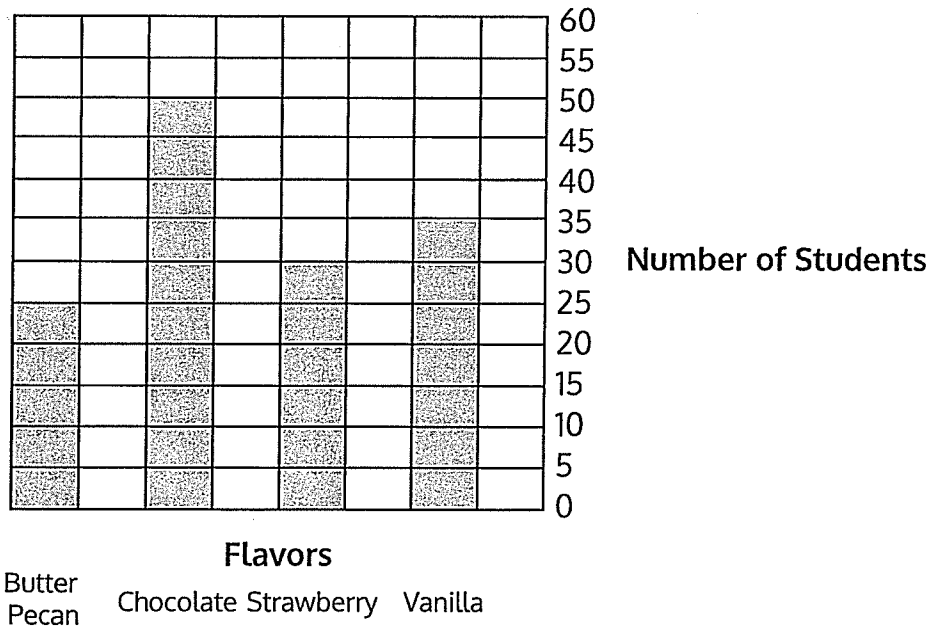
Name: _____ Date: _____

Complete: Class: _____

1. The bar graph below shows the students' favorite ice cream flavors.

Write a number sentence to show the total number of students who voted for butter pecan, vanilla, and chocolate.

Favorite Ice Cream Flavors



EQUATION



Monday March 22, 2021

26

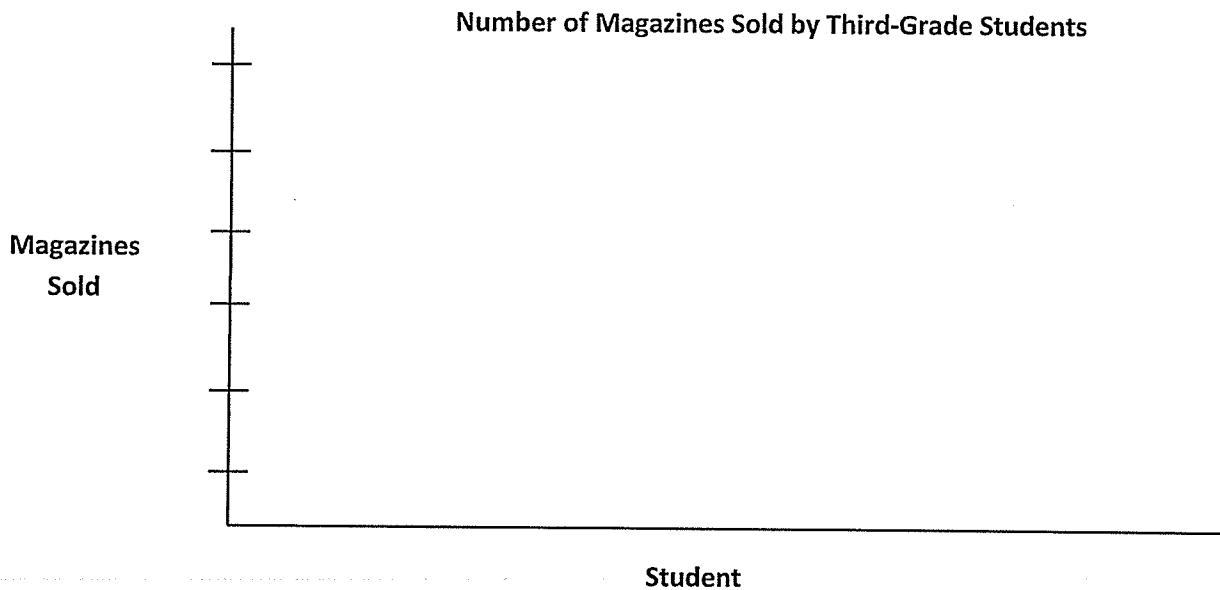
Name _____

Date _____

1. The chart below shows the number of magazines sold by each student.

Student	Ben	Rachel	Jeff	Stanley	Debbie
Magazines Sold	300	250	100	450	600

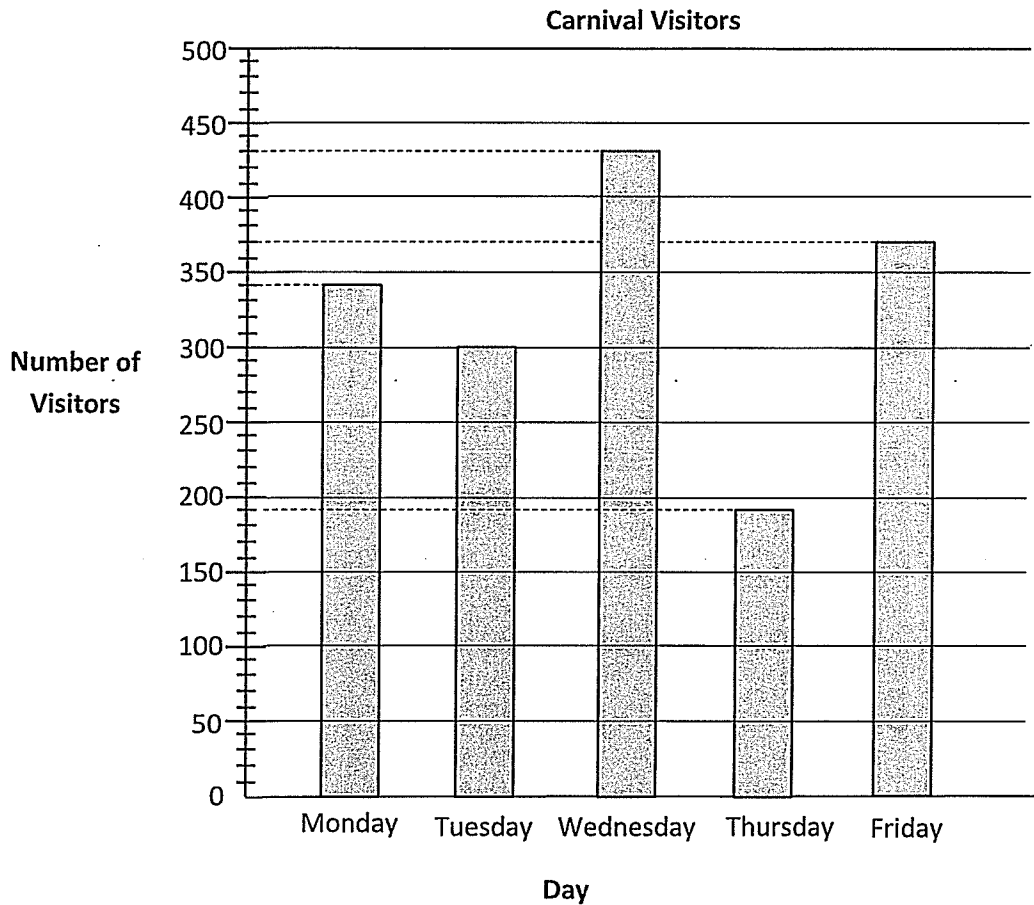
- a. Use the chart to draw a bar graph below. Create an appropriate scale for the graph.



- b. Explain why you chose the scale for the graph.
- c. How many fewer magazines did Debbie sell than Ben and Stanley combined?
- d. How many more magazines did Debbie and Jeff sell than Ben and Rachel?

27

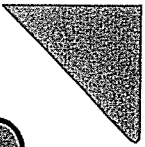
2. The bar graph shows the number of visitors to a carnival from Monday through Friday.



- a. How many fewer visitors were there on the least busy day than on the busiest day?
- b. How many more visitors attended the carnival on Monday and Tuesday combined than on Thursday and Friday combined?

Lesson 4
G3 M:6

EXIT TICKET

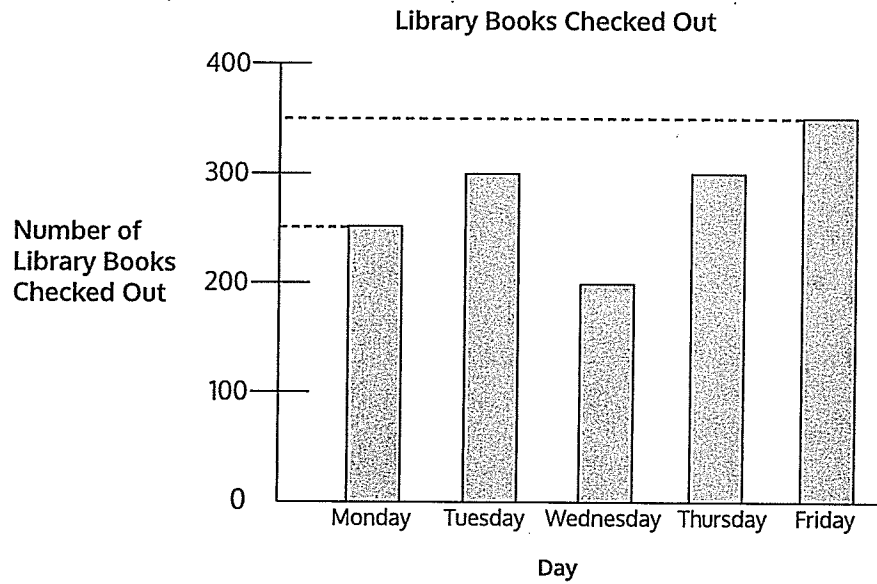


28

Name: _____ Date: _____

Complete: Class: _____

1. The graph below shows the number of library books checked out in five days.



- a. How many books in total were checked out on Wednesday and Thursday?

SHOW YOUR WORK



b. How many more books were checked out on Thursday and Friday than on Monday and Tuesday?

SHOW YOUR WORK



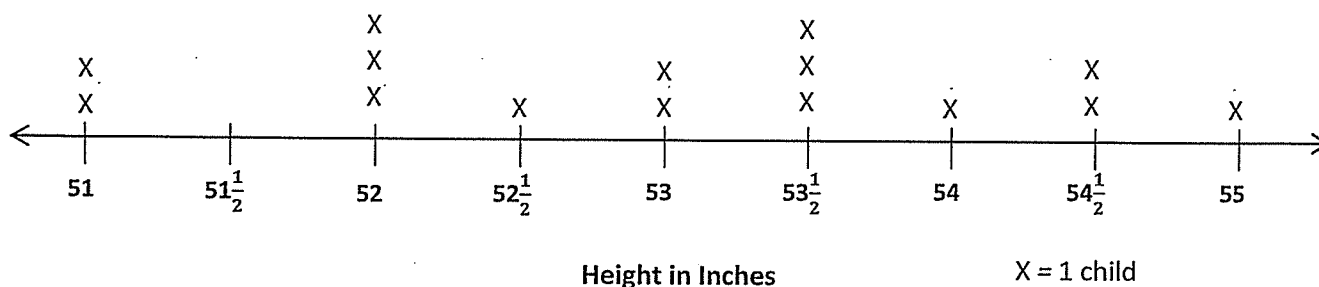
Tuesday March 23, 2021

30

Name _____ Date _____

1. Coach Harris measures the heights of the children on his third-grade basketball team in inches. The heights are shown on the line plot below.

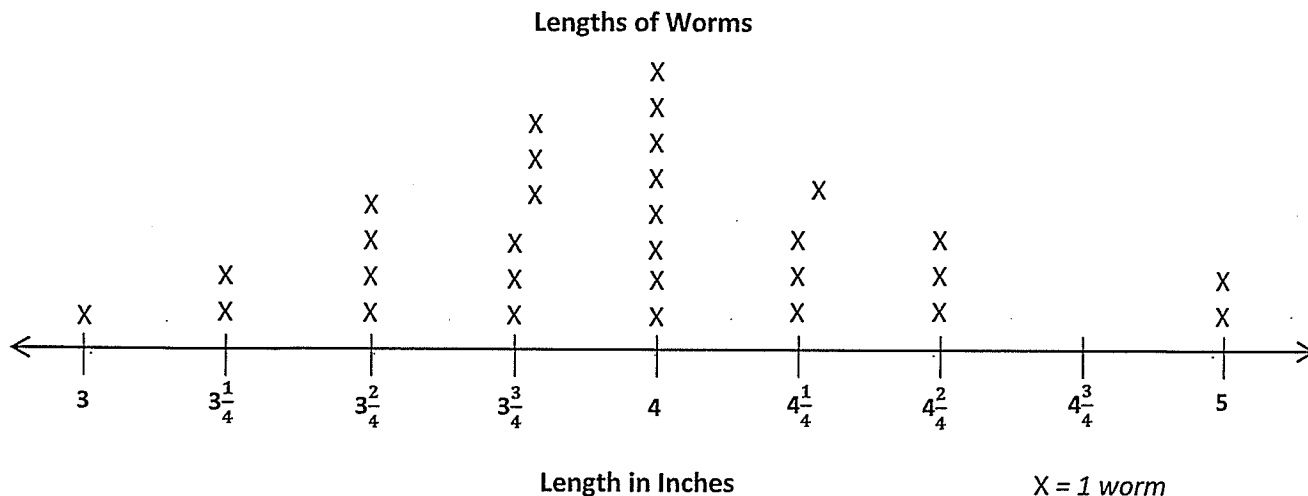
Heights of Children on Third-Grade Basketball Team



- a. How many children are on the team? How do you know?
- b. How many children are less than 53 inches tall?
- c. Coach Harris says that the most common height for the children on his team is $53\frac{1}{2}$ inches. Is he right? Explain your answer.
- d. Coach Harris says that the player who does the tip-off in the beginning of the game has to be at least 54 inches tall. How many children could do the tip-off?

31

2. Miss Vernier's class is studying worms. The lengths of the worms in inches are shown in the line plot below.



- How many worms did the class measure? How do you know?
- Cara says that there are more worms $3\frac{3}{4}$ inches long than worms that are $3\frac{2}{4}$ and $4\frac{1}{4}$ inches long combined. Is she right? Explain your answer.
- Madeline finds a worm hiding under a leaf. She measures it, and it is $4\frac{3}{4}$ inches long. Plot the length of the worm on the line plot.

Lesson 6
G3 M:6

EXIT TICKET

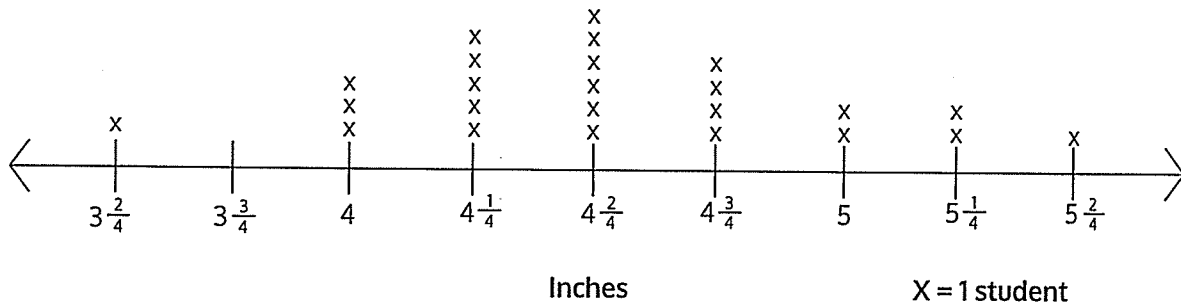
32

Name: _____ Date: _____

Complete: Class: _____

1. Ms. Bravo measures the lengths of her third-grade students' hands in inches. The lengths are shown on the line plot below.

Lengths of Hands of Third-Grade Students



- a. How many students are in Ms. Bravo's class? How do you know?

- b. How many students' hands are longer than $4\frac{2}{4}$ inches?



wednesday March 24, 2021

33

Name _____

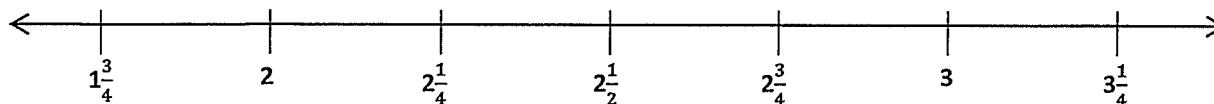
Date _____

Mrs. Weisse's class grows beans for a science experiment. The students measure the heights of their bean plants to the nearest $\frac{1}{4}$ inch and record the measurements as shown below.

Heights of Bean Plants (in Inches)				
$2\frac{1}{4}$	$2\frac{3}{4}$	$3\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{3}{4}$
$1\frac{3}{4}$	3	$2\frac{1}{2}$	$3\frac{1}{4}$	$2\frac{1}{2}$
2	$2\frac{1}{4}$	3	$2\frac{1}{4}$	3
$2\frac{1}{2}$	$3\frac{1}{4}$	$1\frac{3}{4}$	$2\frac{3}{4}$	2

a. Use the data to complete the line plot below.

Title: _____



Label: _____

X =

- b. How many bean plants are at least $2\frac{1}{4}$ inches tall?
- c. How many bean plants are taller than $2\frac{3}{4}$ inches?
- d. What is the most frequent measurement? How many bean plants were plotted for this measurement?
- e. George says that most of the bean plants are at least 3 inches tall. Is he right? Explain your answer.
- f. Savannah was absent the day the class measured the heights of their bean plants. When she returns, her plant measures $2\frac{2}{4}$ inches tall. Can Savannah plot the height of her bean plant on the class line plot? Why or why not?

Lesson 7
G.3 M.6

EXIT TICKET

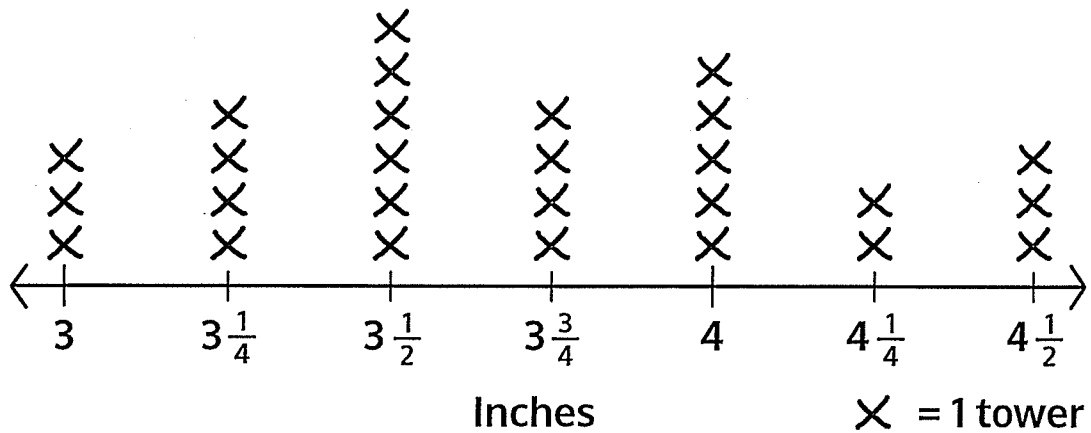
35

Name: _____ Date: _____

Complete:

Class: _____

1. The line plot shows the height of block towers created in Mr. Park's class. Use the line plot to answer the questions below.

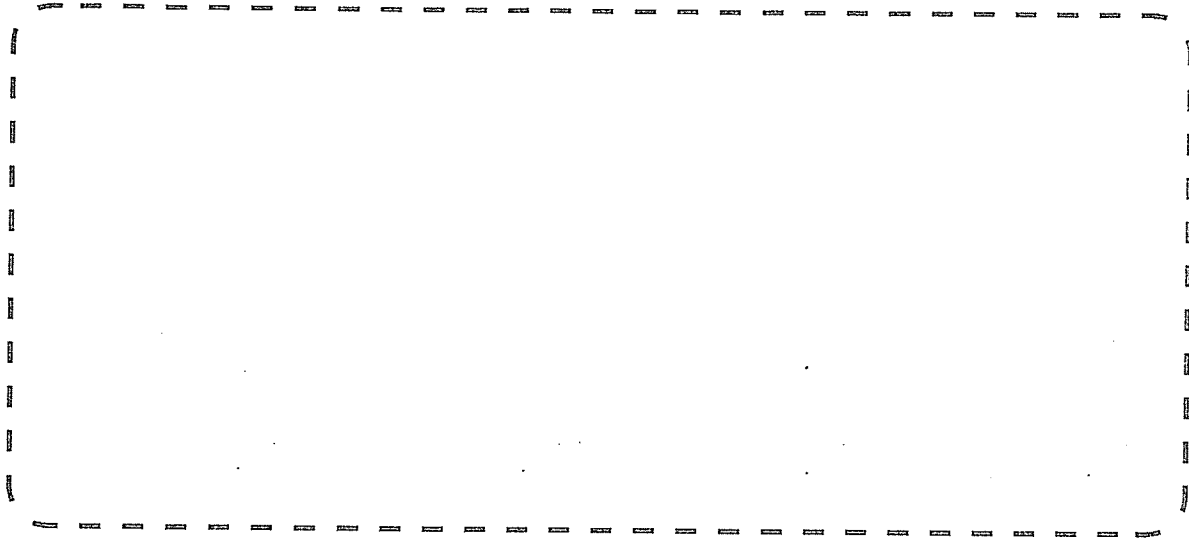


- a. How many block towers are $4 \frac{1}{4}$ inches tall?

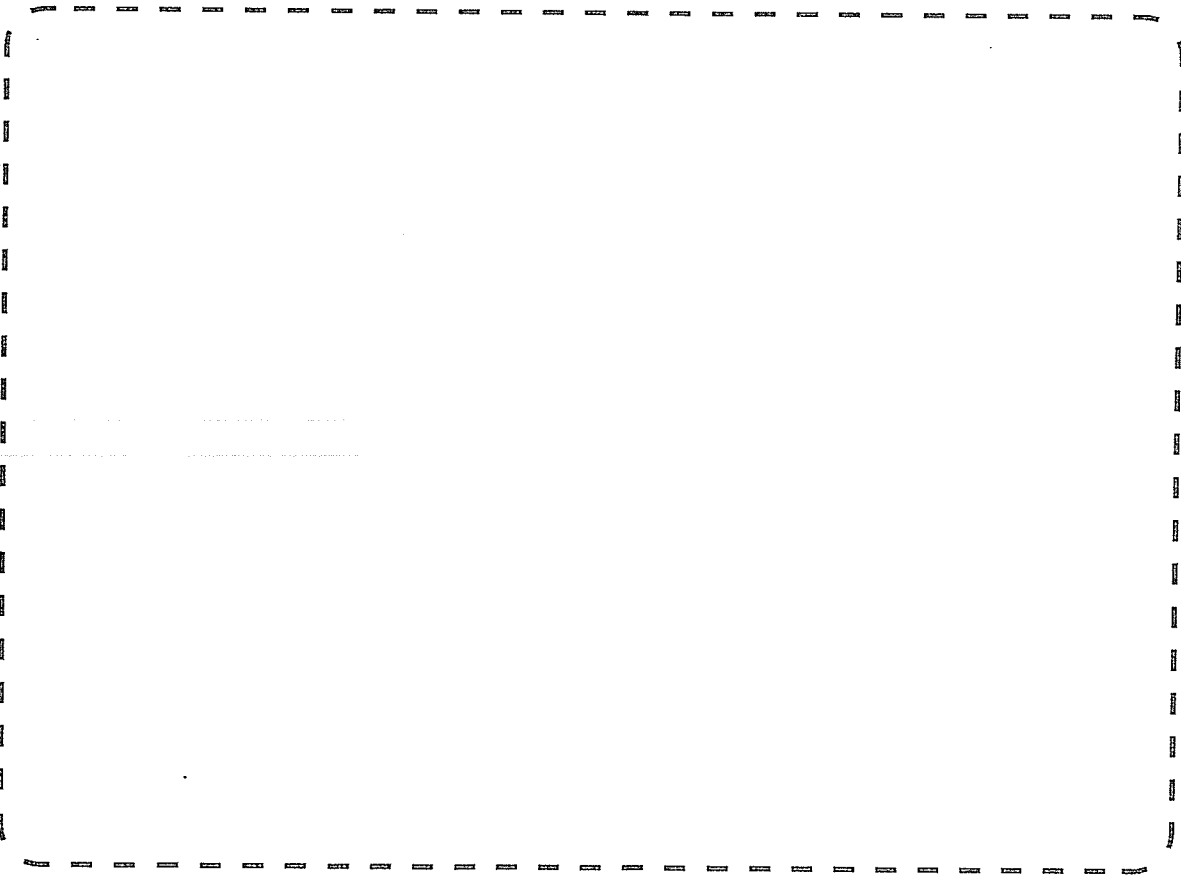
- b. How many block towers are less than $3 \frac{1}{2}$ inches tall?



c. How many block towers were measured? How do you know?



d. Brook says most of the block towers are at least 4 inches tall. Is she correct? Explain your thinking.



Thursday March 25, 2021

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Name _____

Date _____

Delilah stops under a silver maple tree and collects leaves. At home, she measures the widths of the leaves to the nearest $\frac{1}{4}$ inch and records the measurements as shown below.

Widths of Silver Maple Tree Leaves (in Inches)				
$5\frac{3}{4}$	6	$6\frac{1}{4}$	6	$5\frac{3}{4}$
$6\frac{1}{2}$	$6\frac{1}{4}$	$5\frac{1}{2}$	$5\frac{3}{4}$	6
$6\frac{1}{4}$	6	6	$6\frac{1}{2}$	$6\frac{1}{4}$
$6\frac{1}{2}$	$5\frac{3}{4}$	$6\frac{1}{4}$	6	$6\frac{3}{4}$
6	$6\frac{1}{4}$	6	$5\frac{3}{4}$	$6\frac{1}{2}$

- a. Use the data to create a line plot below.

b. Explain the steps you took to create the line plot.

c. How many more leaves were 6 inches wide than $6\frac{1}{2}$ inches wide?

d. Find the three most frequent measurements on the line plot. What does this tell you about the typical width of a silver maple tree leaf?

Lesson 8
G3 M:6

EXIT TICKET

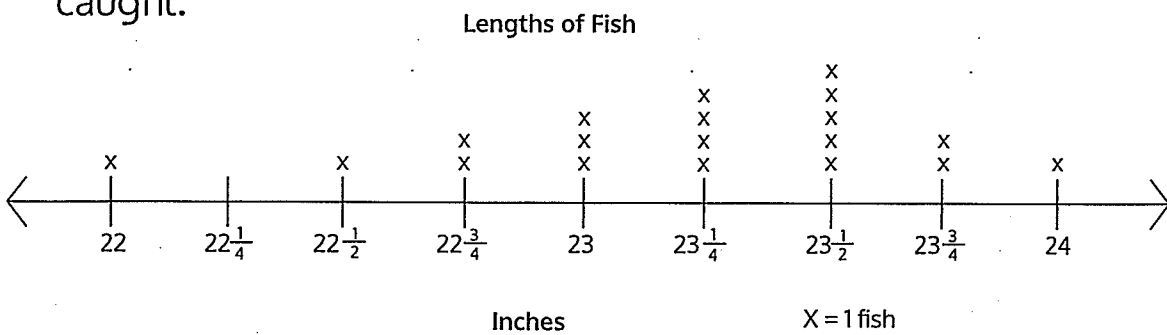
34

Name: _____ Date: _____

Complete:

Class: _____

1. The line plot below shows the lengths of fish the fishing boat caught.



- a. Find the three most frequent measurements on the line plot.

- b. Find the difference between the lengths of the longest and shortest fish.

- c. How many more fish were $23\frac{1}{4}$ inches long than 24 inches long?



Friday March 26, 2021

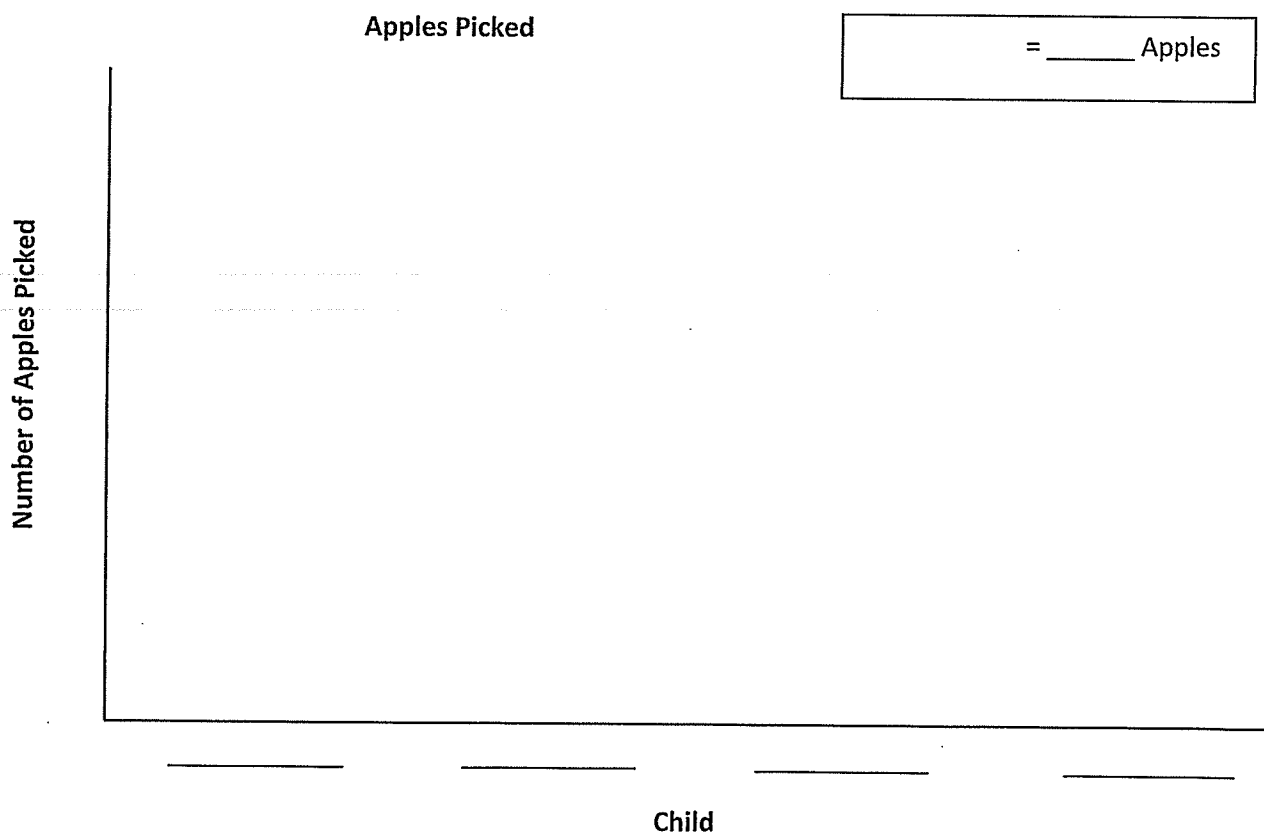
40

Name _____ Date _____

1. Four children went apple picking. The chart shows the number of apples the children picked.

Name	Number of Apples Picked
Stewart	16
Roxanne	_____
Trisha	12
Philip	20
Total:	72

- a. Find the number of apples Roxanne picked to complete the chart.
- b. Create a picture graph below using the data in the table.



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2. Use the chart or graph to answer the following questions.
- How many more apples did Stewart and Roxanne pick than Philip and Trisha?
 - Trisha and Stewart combine their apples to make apples pies. Each pie takes 7 apples. How many pies can they make?
3. Ms. Pacho's science class measured the lengths of blades of grass from their school field to the nearest $\frac{1}{4}$ inch. The lengths are shown below.

Lengths of Blades of Grass (in Inches)					
$2\frac{1}{4}$	$2\frac{3}{4}$	$3\frac{1}{4}$	3	$2\frac{1}{2}$	$2\frac{3}{4}$
$2\frac{3}{4}$	$3\frac{3}{4}$	2	$2\frac{3}{4}$	$3\frac{3}{4}$	$3\frac{1}{4}$
3	$2\frac{1}{2}$	$3\frac{1}{4}$	$2\frac{1}{4}$	$2\frac{3}{4}$	3
$3\frac{1}{4}$	$2\frac{1}{4}$	$3\frac{3}{4}$	3	$3\frac{1}{4}$	$2\frac{3}{4}$

Lesson 9
G3 M:6

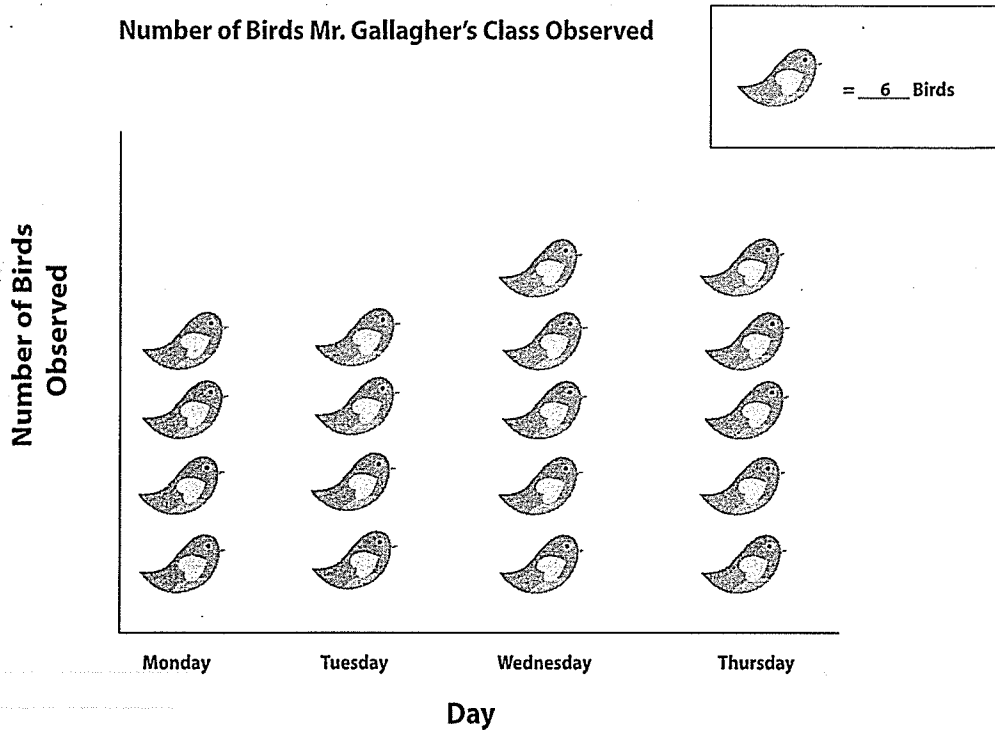
EXIT TICKET

42

Name: _____ Date: _____

Complete: Class: _____

1. Mr. Gallagher's science class goes bird watching. The picture graph below shows the number of birds the class observes.



- a. How many more birds did Mr. Gallagher's class observe on Wednesday and Thursday than on Monday and Tuesday?



b. Mr. Manning's class observed 104 birds. How many more birds did Mr. Gallagher's class observe?

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SHOW YOUR WORK

EXTRA WORKSPACE

