A Story of Units®

Eureka Math™

Grade 3, Module 6

Student File_B

*Contains Sprint and Fluency, Exit Ticket,
and Assessment Materials*

Sprint and Fluency Packet

A

Multiply or Divide by 6

1.	$2 \times 6 =$	
2.	$3 \times 6 =$	
3.	$4 \times 6 =$	
4.	$5 \times 6 =$	
5.	$1 \times 6 =$	
6.	$12 \div 6 =$	
7.	$18 \div 6 =$	
8.	$30 \div 6 =$	
9.	$6 \div 6 =$	
10.	$24 \div 6 =$	
11.	$6 \times 6 =$	
12.	$7 \times 6 =$	
13.	$8 \times 6 =$	
14.	$9 \times 6 =$	
15.	$10 \times 6 =$	
16.	$48 \div 6 =$	
17.	$42 \div 6 =$	
18.	$54 \div 6 =$	
19.	$36 \div 6 =$	
20.	$60 \div 6 =$	
21.	$\underline{\quad} \times 6 = 30$	
22.	$\underline{\quad} \times 6 = 6$	

23.	$\underline{\quad} \times 6 = 60$	
24.	$\underline{\quad} \times 6 = 12$	
25.	$\underline{\quad} \times 6 = 18$	
26.	$60 \div 6 =$	
27.	$30 \div 6 =$	
28.	$6 \div 6 =$	
29.	$12 \div 6 =$	
30.	$18 \div 6 =$	
31.	$\underline{\quad} \times 6 = 36$	
32.	$\underline{\quad} \times 6 = 42$	
33.	$\underline{\quad} \times 6 = 54$	
34.	$\underline{\quad} \times 6 = 48$	
35.	$42 \div 6 =$	
36.	$54 \div 6 =$	
37.	$36 \div 6 =$	
38.	$48 \div 6 =$	
39.	$11 \times 6 =$	
40.	$66 \div 6 =$	
41.	$12 \times 6 =$	
42.	$72 \div 6 =$	
43.	$14 \times 6 =$	
44.	$84 \div 6 =$	

B

Multiply or Divide by 6

1.	1 × 6 =	
2.	2 × 6 =	
3.	3 × 6 =	
4.	4 × 6 =	
5.	5 × 6 =	
6.	18 ÷ 6 =	
7.	12 ÷ 6 =	
8.	24 ÷ 6 =	
9.	6 ÷ 6 =	
10.	30 ÷ 6 =	
11.	10 × 6 =	
12.	6 × 6 =	
13.	7 × 6 =	
14.	8 × 6 =	
15.	9 × 6 =	
16.	42 ÷ 6 =	
17.	36 ÷ 6 =	
18.	48 ÷ 6 =	
19.	60 ÷ 6 =	
20.	54 ÷ 6 =	
21.	___ × 6 = 6	
22.	___ × 6 = 30	

23.	___ × 6 = 12	
24.	___ × 6 = 60	
25.	___ × 6 = 18	
26.	12 ÷ 6 =	
27.	6 ÷ 6 =	
28.	60 ÷ 6 =	
29.	30 ÷ 6 =	
30.	18 ÷ 6 =	
31.	___ × 6 = 18	
32.	___ × 6 = 24	
33.	___ × 6 = 54	
34.	___ × 6 = 42	
35.	48 ÷ 6 =	
36.	54 ÷ 6 =	
37.	36 ÷ 6 =	
38.	42 ÷ 6 =	
39.	11 × 6 =	
40.	66 ÷ 6 =	
41.	12 × 6 =	
42.	72 ÷ 6 =	
43.	13 × 6 =	
44.	78 ÷ 6 =	

Number of Children in Third-Grade Families

		X		
X		X		
X		X		
X		X	X	
X		X	X	
X		X	X	
X		X	X	
X		X	X	X
X		X	X	X
1		**2**	**3**	**4**

Number of Children   **X** *= 1 Child*
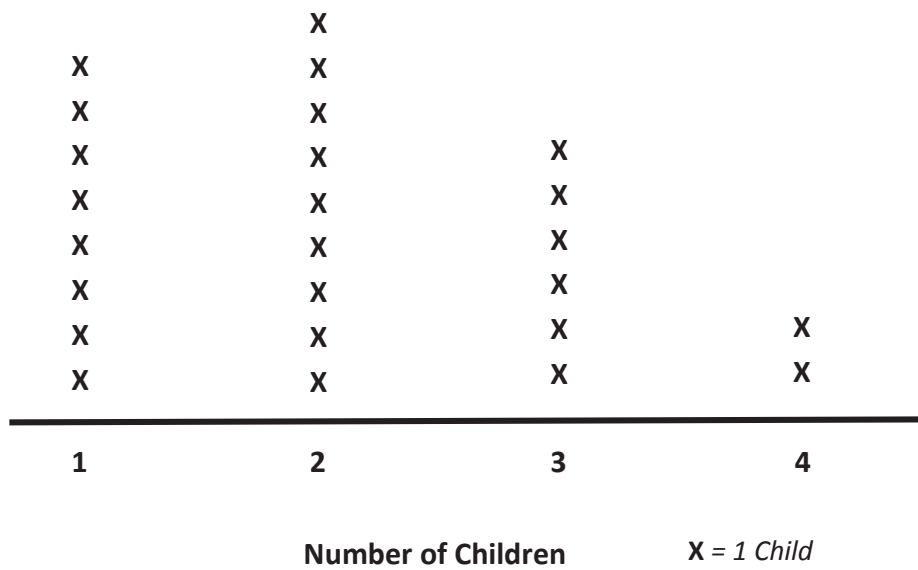
line plot

Number of Minutes Spent Practicing Piano

Child

Ryan

Kari

Brian

Liz

0   10   20   30   40   50   60   70

Number of Minutes

_____

bar graph

EUREKA MATH

Lesson 4:   Solve one- and two-step problems involving graphs.

4

Multiply.

6 x 1 = _____   6 x 2 = _____   6 x 3 = _____   6 x 4 = _____

6 x 5 = _____   6 x 1 = _____   6 x 2 = _____   6 x 1 = _____

6 x 3 = _____   6 x 1 = _____   6 x 4 = _____   6 x 1 = _____

6 x 5 = _____   6 x 1 = _____   6 x 2 = _____   6 x 3 = _____

6 x 2 = _____   6 x 4 = _____   6 x 2 = _____   6 x 5 = _____

6 x 2 = _____   6 x 1 = _____   6 x 2 = _____   6 x 3 = _____

6 x 1 = _____   6 x 3 = _____   6 x 2 = _____   6 x 3 = _____

6 x 4 = _____   6 x 3 = _____   6 x 5 = _____   6 x 3 = _____

6 x 4 = _____   6 x 1 = _____   6 x 4 = _____   6 x 2 = _____

6 x 4 = _____   6 x 3 = _____   6 x 4 = _____   6 x 5 = _____

6 x 4 = _____   6 x 5 = _____   6 x 1 = _____   6 x 5 = _____

6 x 2 = _____   6 x 5 = _____   6 x 3 = _____   6 x 5 = _____

6 x 4 = _____   6 x 2 = _____   6 x 4 = _____   6 x 3 = _____

6 x 5 = _____   6 x 3 = _____   6 x 2 = _____   6 x 4 = _____

6 x 3 = _____   6 x 5 = _____   6 x 2 = _____   6 x 4 = _____

multiply by 6 (1–5)

EUREKA MATH™   **Lesson 6:**   Interpret measurement data from various line plots.   **5**

Number of Miles a Truck Driver Drives
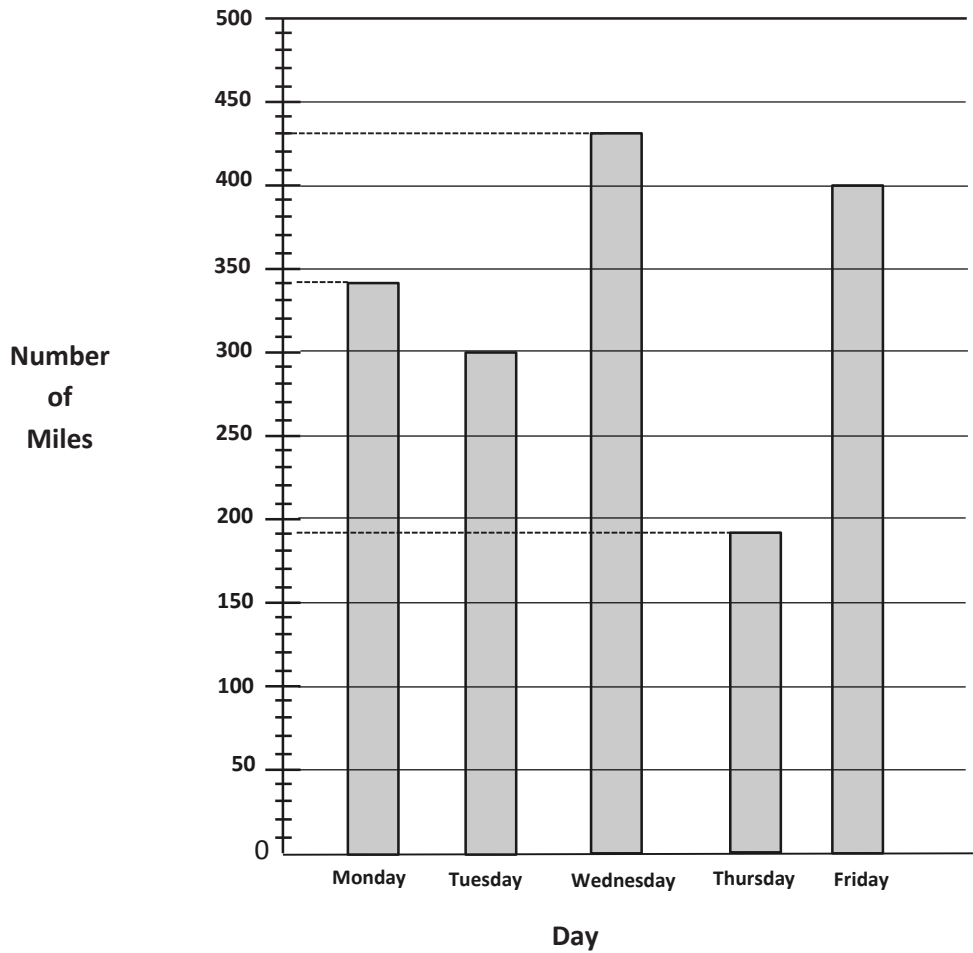
number of miles bar graph

Multiply.

6 x 1 = _____   6 x 2 = _____   6 x 3 = _____   6 x 4 = _____

6 x 5 = _____   6 x 6 = _____   6 x 7 = _____   6 x 8 = _____

6 x 9 = _____   6 x 10 = _____   6 x 5 = _____   6 x 6 = _____

6 x 5 = _____   6 x 7 = _____   6 x 5 = _____   6 x 8 = _____

6 x 5 = _____   6 x 9 = _____   6 x 5 = _____   6 x 10 = _____

6 x 6 = _____   6 x 5 = _____   6 x 6 = _____   6 x 7 = _____

6 x 6 = _____   6 x 8 = _____   6 x 6 = _____   6 x 9 = _____

6 x 6 = _____   6 x 7 = _____   6 x 6 = _____   6 x 7 = _____

6 x 8 = _____   6 x 7 = _____   6 x 9 = _____   6 x 7 = _____

6 x 8 = _____   6 x 6 = _____   6 x 8 = _____   6 x 7 = _____

6 x 8 = _____   6 x 9 = _____   6 x 9 = _____   6 x 6 = _____

6 x 9 = _____   6 x 7 = _____   6 x 9 = _____   6 x 8 = _____

6 x 9 = _____   6 x 8 = _____   6 x 6 = _____   6 x 9 = _____

6 x 7 = _____   6 x 9 = _____   6 x 6 = _____   6 x 8 = _____

6 x 9 = _____   6 x 7 = _____   6 x 6 = _____   6 x 8 = _____

multiply by 6 (6–10)

Multiply.

7 x 1 = _____	7 x 2 = _____	7 x 3 = _____	7 x 4 = _____
7 x 5 = _____	7 x 1 = _____	7 x 2 = _____	7 x 1 = _____
7 x 3 = _____	7 x 1 = _____	7 x 4 = _____	7 x 1 = _____
7 x 5 = _____	7 x 1 = _____	7 x 2 = _____	7 x 3 = _____
7 x 2 = _____	7 x 4 = _____	7 x 2 = _____	7 x 5 = _____
7 x 2 = _____	7 x 1 = _____	7 x 2 = _____	7 x 3 = _____
7 x 1 = _____	7 x 3 = _____	7 x 2 = _____	7 x 3 = _____
7 x 4 = _____	7 x 3 = _____	7 x 5 = _____	7 x 3 = _____
7 x 4 = _____	7 x 1 = _____	7 x 4 = _____	7 x 2 = _____
7 x 4 = _____	7 x 3 = _____	7 x 4 = _____	7 x 5 = _____
7 x 4 = _____	7 x 5 = _____	7 x 1 = _____	7 x 5 = _____
7 x 2 = _____	7 x 5 = _____	7 x 3 = _____	7 x 5 = _____
7 x 4 = _____	7 x 2 = _____	7 x 4 = _____	7 x 3 = _____
7 x 5 = _____	7 x 3 = _____	7 x 2 = _____	7 x 4 = _____
7 x 3 = _____	7 x 5 = _____	7 x 2 = _____	7 x 4 = _____

multiply by 7 (1–5)

EUREKA MATH™

Lesson 8: Represent measurement data with line plots.

8

Multiply.

7 x 1 = _____	7 x 2 = _____	7 x 3 = _____	7 x 4 = _____
7 x 5 = _____	7 x 6 = _____	7 x 7 = _____	7 x 8 = _____
7 x 9 = _____	7 x 10 = _____	7 x 5 = _____	7 x 6 = _____
7 x 5 = _____	7 x 7 = _____	7 x 5 = _____	7 x 8 = _____
7 x 5 = _____	7 x 9 = _____	7 x 5 = _____	7 x 10 = _____
7 x 6 = _____	7 x 5 = _____	7 x 6 = _____	7 x 7 = _____
7 x 6 = _____	7 x 8 = _____	7 x 6 = _____	7 x 9 = _____
7 x 6 = _____	7 x 7 = _____	7 x 6 = _____	7 x 7 = _____
7 x 8 = _____	7 x 7 = _____	7 x 9 = _____	7 x 7 = _____
7 x 8 = _____	7 x 6 = _____	7 x 8 = _____	7 x 7 = _____
7 x 8 = _____	7 x 9 = _____	7 x 9 = _____	7 x 6 = _____
7 x 9 = _____	7 x 7 = _____	7 x 9 = _____	7 x 8 = _____
7 x 9 = _____	7 x 8 = _____	7 x 6 = _____	7 x 9 = _____
7 x 7 = _____	7 x 9 = _____	7 x 6 = _____	7 x 8 = _____
7 x 9 = _____	7 x 7 = _____	7 x 6 = _____	7 x 8 = _____

multiply by 7 (6–10)

Exit Ticket Packet

Name _____   Date _____

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

Favorite Sports			
◯ ◯	◯ ◯ ◯ ◯	◯ ◯ ◯	◯ ◯
Football	**Soccer**	**Tennis**	**Hockey**

Each ◯ represents 3 students.
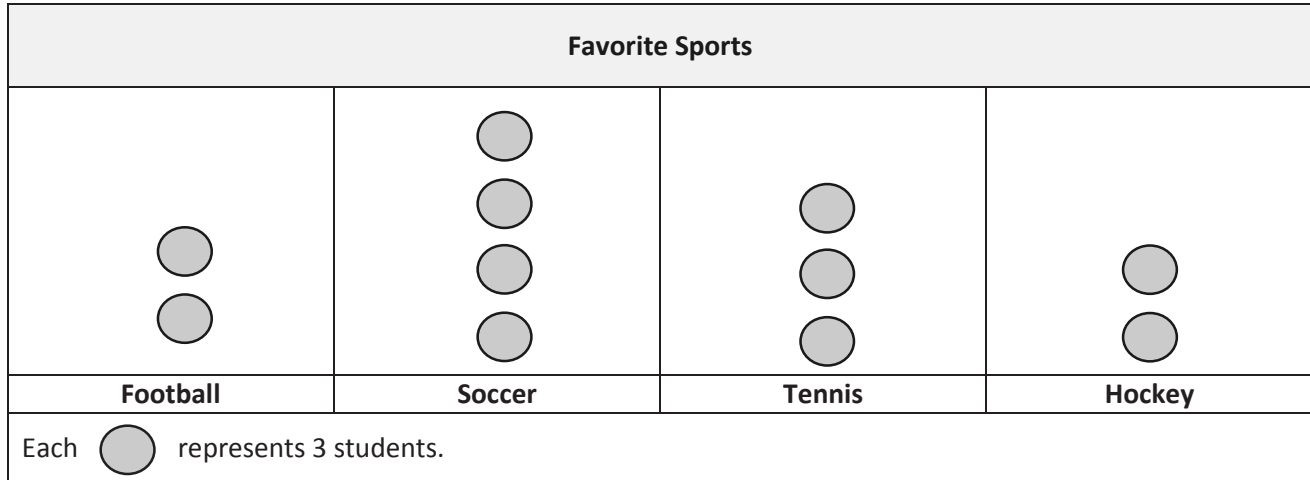
a. The same number of students picked _____ and _____ as their favorite sport.

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

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

d. How many total students were surveyed?

Name _____   Date _____

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

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

a. Draw tape diagrams with a unit size of 4 to represent the book club's favorite type of book.

b. Use your tape diagrams to draw vertical tape diagrams that represent the data.

Name _____   Date _____

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

Favorite Ice Cream Flavors

Flavor

Butter Pecan

Chocolate

Strawberry

Vanilla

0   10   20   30   40   50   60

Number of Students
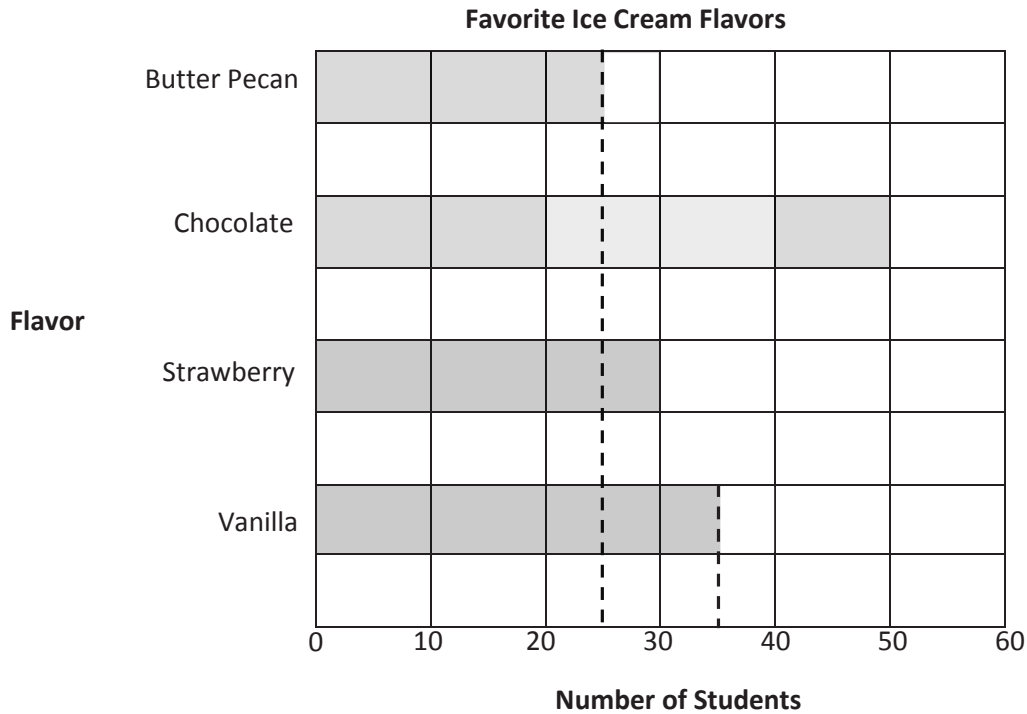
a. Use the graph's lines as a ruler to draw intervals on the number line shown above. Then plot and label a point for each flavor on the number line.

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

Name _____   Date _____

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

Library Books Checked Out

Number of Library Books Checked Out

Monday	250
Tuesday	310
Wednesday	210
Thursday	320
Friday	395

Day
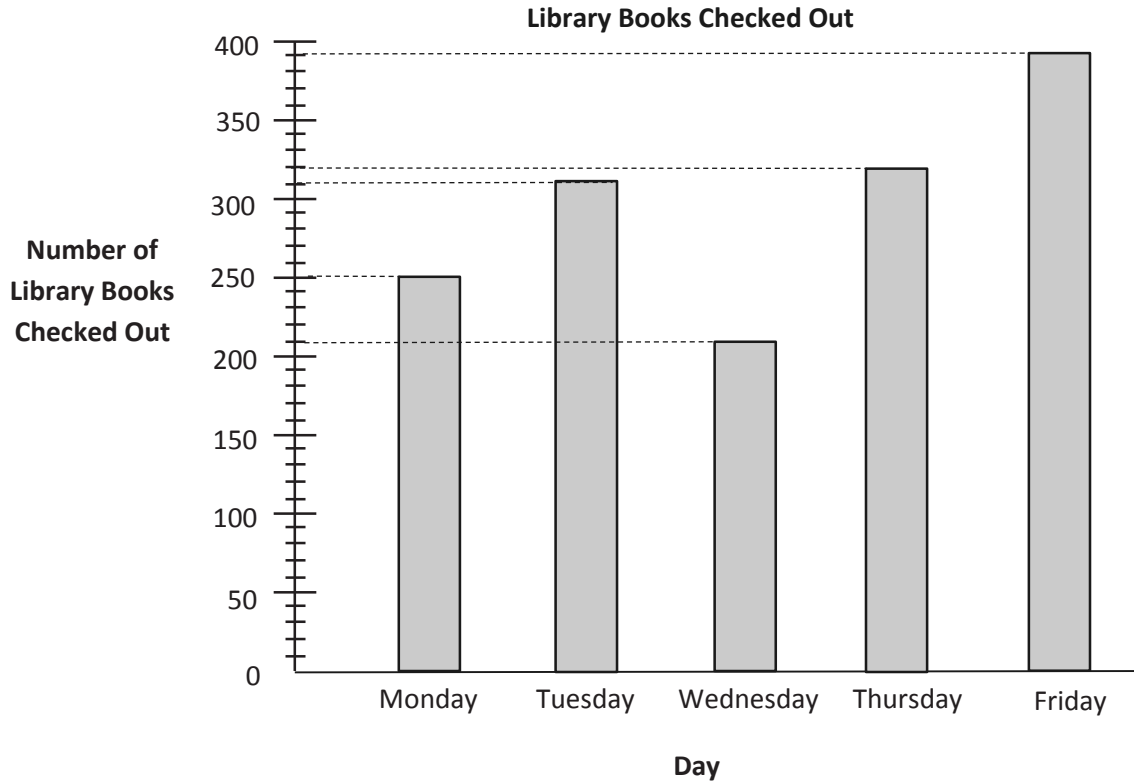
c.   How many books in total were checked out on Wednesday and Thursday?

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

EUREKA MATH

Lesson 4:   Solve one- and two-step problems involving graphs.

4

Name _____   Date _____

Davon marks a 4-inch paper strip into equal parts as shown below.

a.   Label the whole and quarter inches on the paper strip.

b.   Davon tells his teacher that his paper strip measures 4 inches. Sandra says it measures 16 quarter inches. Explain how the two measurements are the same. Use words, pictures, or numbers.
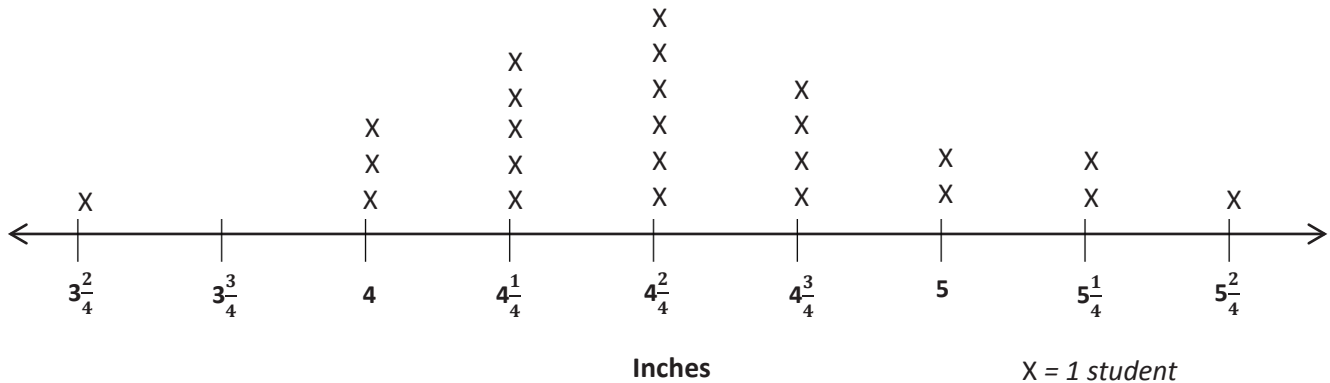
EUREKA MATH™

Lesson 5:   Create ruler with 1-inch, ½-inch, and ¼-inch intervals, and generate measurement data.

5

Name _____   Date _____

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

Inches   X = 1 student

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?

c.   Darren says that more students' hands are $4\frac{2}{4}$ inches long than 4 and $5\frac{1}{4}$ inches combined. Is he right? Explain your answer.

Name _____   Date _____

Scientists measure the growth of mice in inches. The scientists measure the length of the mice to the nearest $\frac{1}{4}$ inch and record the measurements as shown below.

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

Label each tick mark. Then, record the data on the line plot below.

Title: _____
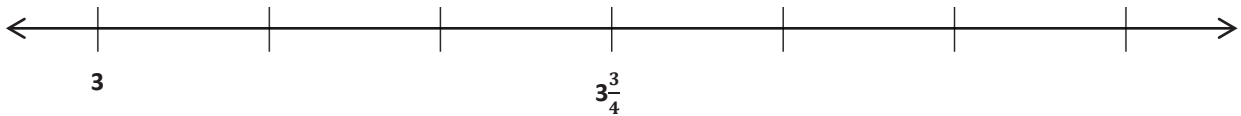
Label: _____ X = 1 mouse

Name _____   Date _____

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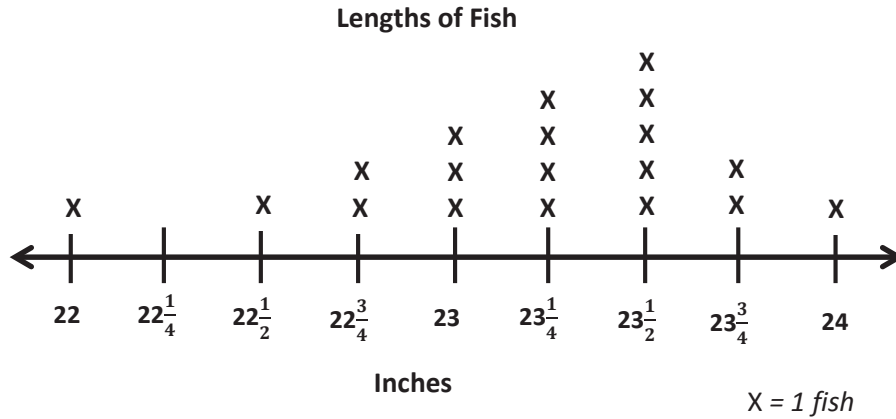
Lengths of Fish

```
                                    X
                              X     X
                        X     X     X
                  X     X     X     X     X
      X           X     X     X     X     X     X
 ──┼─────┼─────┼─────┼─────┼─────┼─────┼─────┼─────►
  22   22¼   22½   22¾   23   23¼   23½   23¾   24
```

Inches

X = 1 fish

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?

Name _____   Date _____

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

 = __6__ Birds

**Number of Birds Mr. Gallagher's Class Observed**

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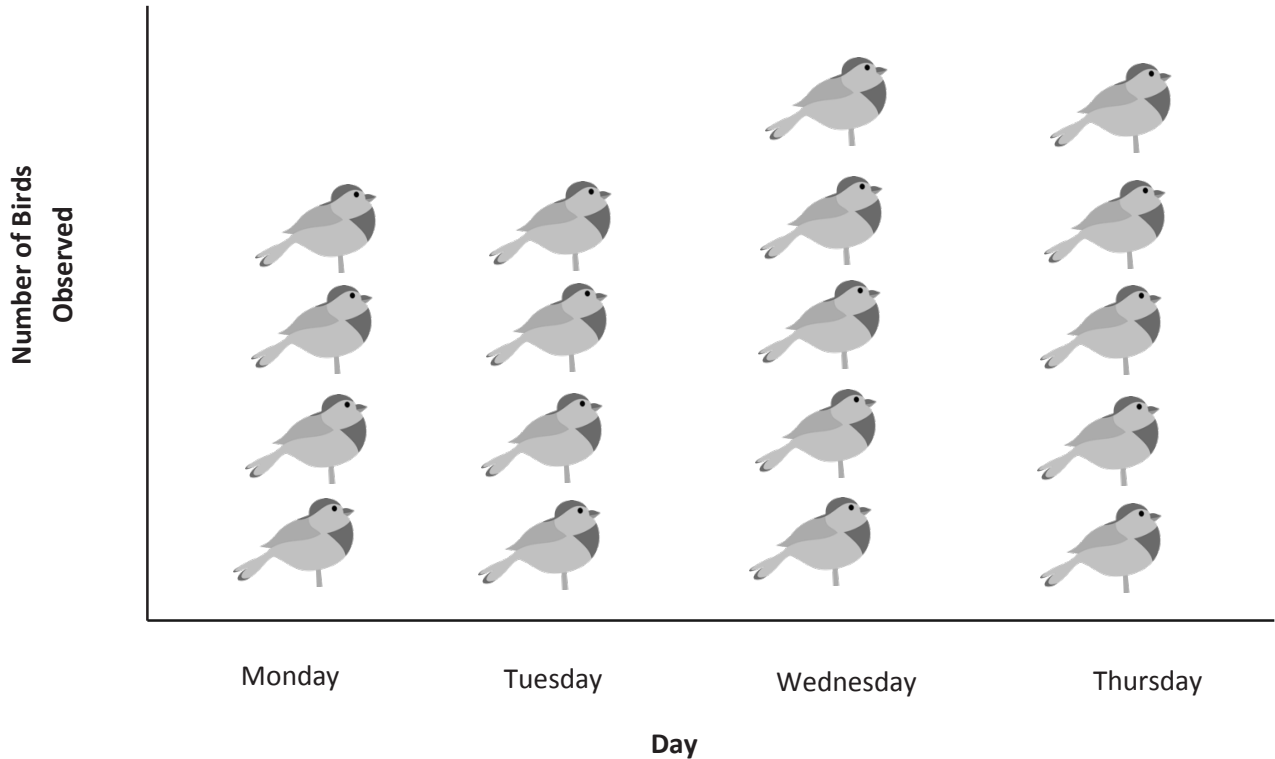
a. How many more birds did Mr. Gallagher's class observe on Wednesday and Thursday than on Monday and Tuesday?

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

Assessment Packet

Name _____   Date _____

1. The picture graph below represents all the trees in the park.

Trees in the Park

= 4 trees

Maple   Spruce   Birch   Oak   Ash

Type of Tree
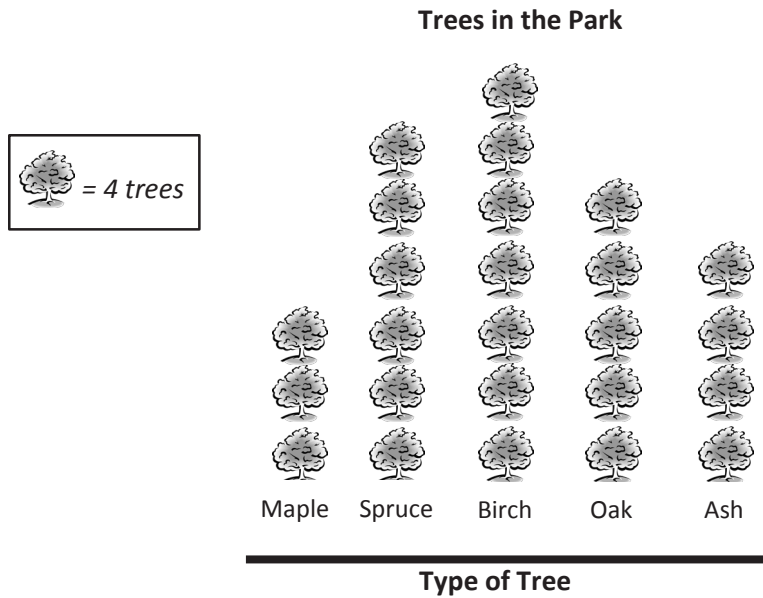
a. Use the grid to create and label a scaled bar graph representing the data in the picture graph above.
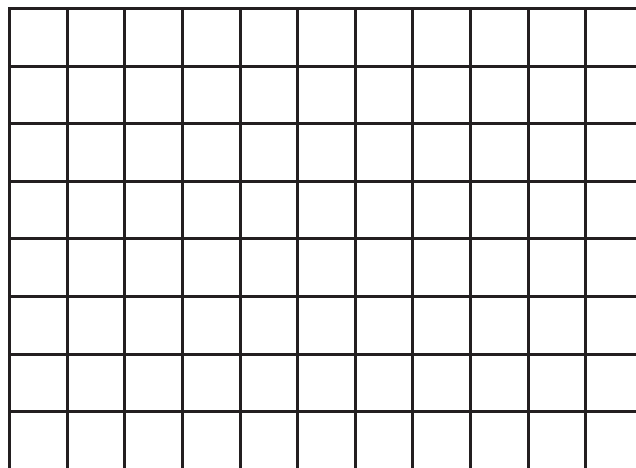

b. How many more maple and oak trees are there than birch trees?

2. The table below shows the number of flowers that were planted by the science club.

   a. Complete the table by filling in the number of marigolds that were planted.

Flowers Planted by Science Club	
Type of Flower	**Number Planted**
Roses	24
Lilies	12
Marigolds	_____
TOTAL Flowers Planted:	54

   b. Use the lines below to create and label a picture graph using the data in the table. Determine a picture and scale to represent the number of each type of flower.

   = _____ *flowers*

   Number Planted

   _____   _____   _____

   Type of Flower
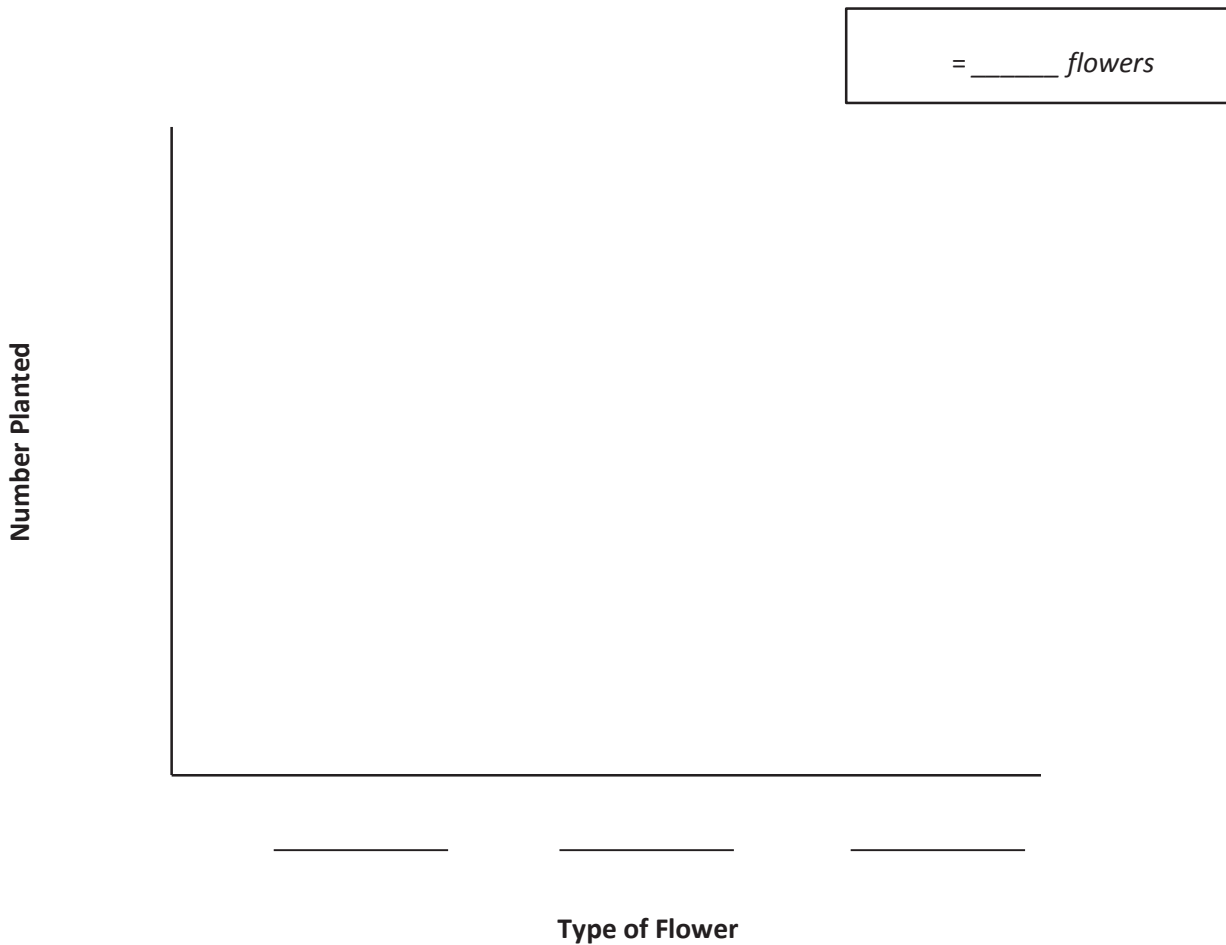
3. Fred measures the heights of all the sunflowers in his backyard. His measurements in inches are shown on the line plot below.

Heights of Sunflowers

Inches   X = 1 sunflower
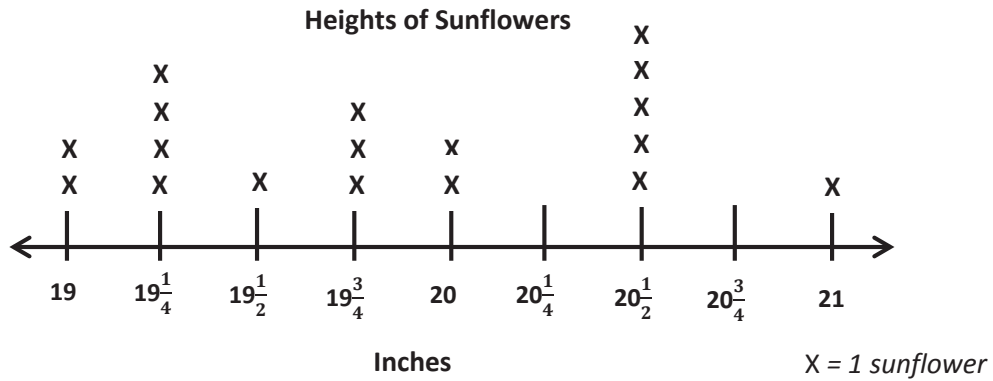
a. How many sunflowers are in Fred's backyard? Explain how you know.

b. What are the three most frequent measurements on the line plot? Write them in order from shortest to longest.

4. Carol measures 16 bamboo shoots. Her measurements are recorded in the table below.

Heights of Bamboo Shoots (in Inches)			
$94\frac{1}{2}$	$94\frac{1}{4}$	$93\frac{3}{4}$	$94\frac{3}{4}$
$94\frac{3}{4}$	95	$94\frac{3}{4}$	$95\frac{1}{4}$
$94\frac{1}{2}$	$94\frac{3}{4}$	$94\frac{3}{4}$	$94\frac{1}{2}$
95	$94\frac{3}{4}$	$94\frac{3}{4}$	95

a. Make a line plot of the bamboo shoot data. Explain your choice of scale.

b. How many more bamboo shoots measured $94\frac{3}{4}$ inches than both 95 and $94\frac{1}{2}$ inches combined?

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