Name Date Time

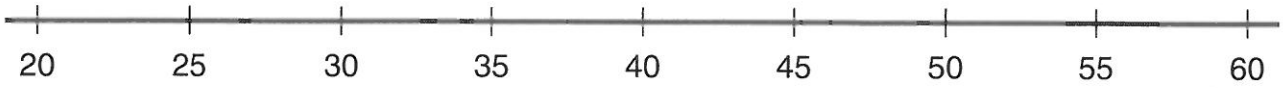
STUDY LINK 6•1

The Standing Long Jump

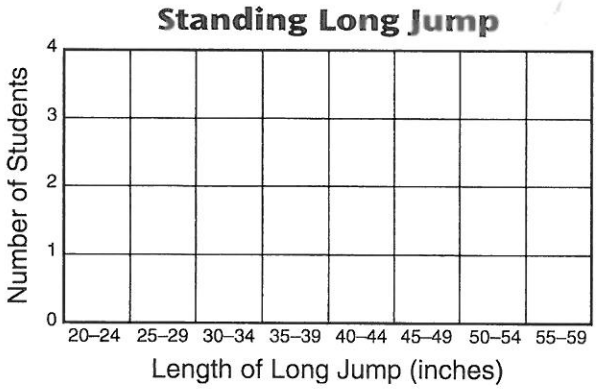
Ms. Perez's physical education class participated in the standing long jump. Following are the results rounded to the nearest inch.

24	35	33	48	33	48	27	35	27	55	43	24
55	33	52	33	29	59	26	59	48	37	42	42

1. Organize these data on the line plot below.



2. Make a bar graph for these data.



3. Find the following landmarks for the standing long jump data:

a. Maximum: _____ in.

b. Minimum: _____ in.

c. Mode: _____ in.

d. Median: _____ in.

e. Mean (average): _____ in. (Use a calculator. Add the distances and divide the sum by the number of jumps. Round to the nearest tenth.)

Practice

4. 48 * 29 = _____

5. 98.25
− 79.82

6. $24\overline{)384}$

7. 767.5 + 30.82 = _____

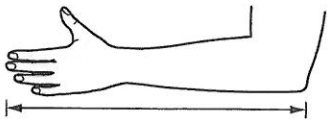
Name Date Time

STUDY LINK 6•2

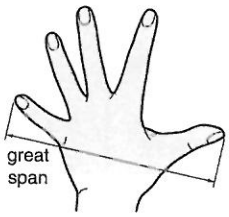
Standard and Nonstandard Units

1. Use your body measures to find three objects that are about the size of each measurement below.

a. 1 cubit



b. 1 great span



c. 1 finger width

_____ _____ _____

_____ _____ _____

_____ _____ _____

2. For each problem below, mark the unit or units you *could* use to measure the object.

a. Height of your ceiling	O cm	O ft	O lb	O miles
b. Amount of milk in a pitcher	O cm	O ounces	O gal	O liters
c. Depth of the ocean	O m	O ounces	O gal	O miles
d. Length of a bee	O cm	O ft	O mm	O liters
e. Weight of a nickel	O in.	O kg	O lb	O grams

Practice

3. $34 * 79 =$ _____

4. $\begin{array}{r} 8{,}201 \\ -2{,}190 \\ \hline \end{array}$

5. $6\overline{)4{,}152}$

6. $59.46 + 82.17 =$ _____

Name Date Time

STUDY LINK 6•3

Reading a Stem-and-Leaf Plot

Use the information below to answer the questions.

Jamal was growing sunflowers. After eight weeks, he measured the height of his sunflowers in inches. He recorded the heights in the stem-and-leaf plot below.

Height of Sunflowers (inches)

Stems (10s)	Leaves (1s)
3	9 1
4	7 6 9 2 9
5	2 3 3 5 2 8 7 3
6	5 3 4
7	3

1. How tall is the tallest sunflower? ____ in.

Which landmark is the height of the tallest flower? Circle its name.

minimum mode

maximum mean

2. How many sunflowers did Jamal measure? ____ sunflowers.

3. What is the mode for his measurements? ____ in.

4. Explain how to find the median for his measurements.

Practice

5. $62 * 53 =$ _____

6. $\begin{array}{r} 6{,}711 \\ -\ 4{,}140 \\ \hline \end{array}$

7. $22\overline{)398} \rightarrow$ _____

8. $725 * 90 =$ _____

Name _____ Date _____ Time _____

STUDY LINK 6•4

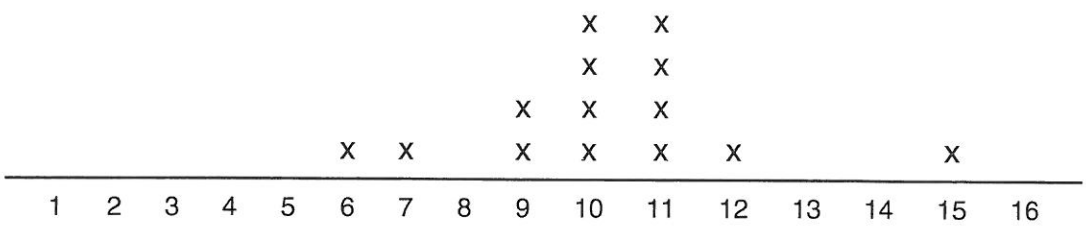
How Much Do Students Spend?

A fifth-grade class collected data about class spending per month on various items. Below are some of the results.

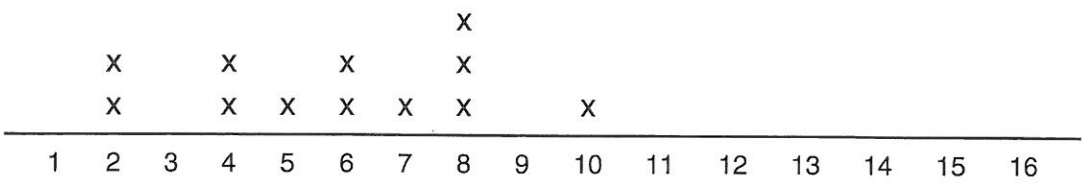
- A median amount of $6 per month was spent for books and magazines.
- A median amount of $10 per month was spent for tapes and CDs.
- A median amount of $8 per month was spent for movie tickets.

The number-line plots below display the data. Match the plots with the items: books and magazines, tapes and CDs, and movie tickets.

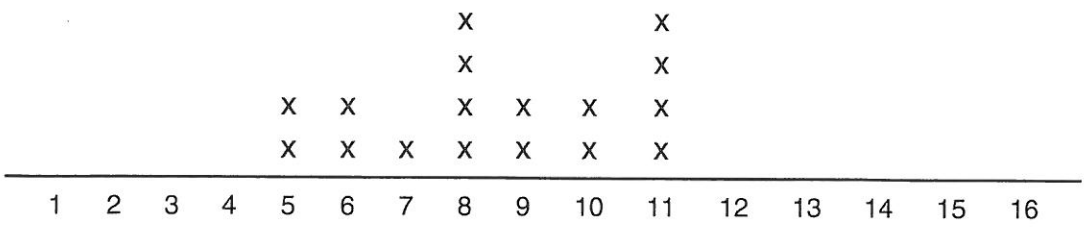
1. _____



2. _____



3. _____



Practice

4. $119 * 47 =$ _____

5. $\begin{array}{r} 9{,}402 \\ +\ 7{,}137 \\ \hline \end{array}$

6. $9\overline{)5{,}241} \rightarrow$ _____

7. $9{,}487 * 8 =$ _____

Name Date Time

STUDY LINK 6•5

Constructing a Graph from Landmarks

SRB 119 122

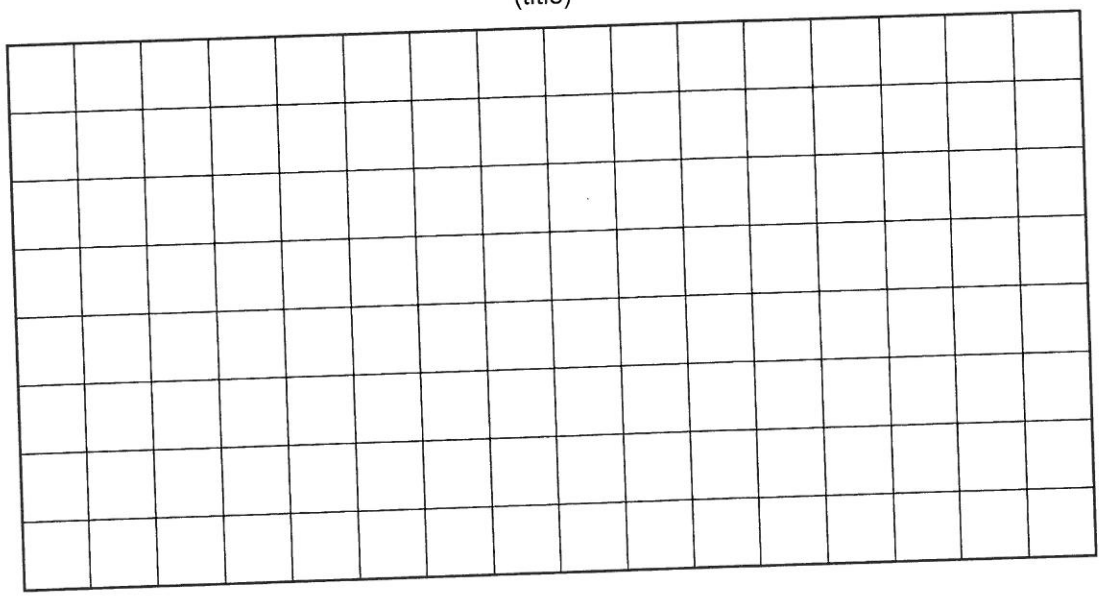
1. Make up a list of data with the following landmarks:

   mode: 15 minimum: 5 median: 10 maximum: 20

   Use at least 10 numbers.

2. Draw and label a bar graph to represent your data.

(title)



3. Describe a situation in which these data might actually occur.

Practice

4. 305 * 29 = _____

5. 524 − 81 = _____

6. 671 * 132 = _____

7. 7,356 ÷ 4 = _____

Name Date Time

STUDY LINK 6•6

Data Analysis

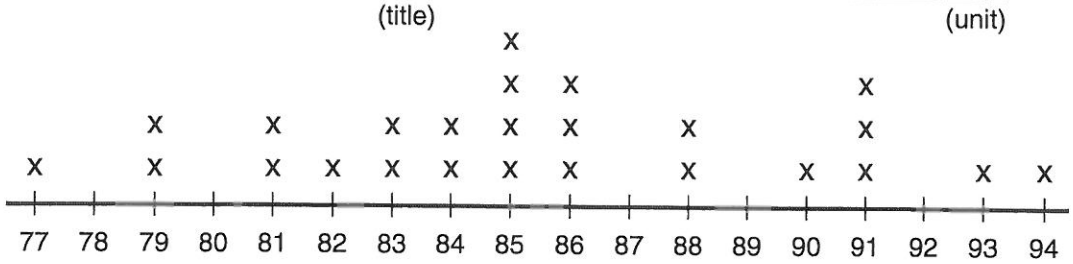
1. Describe a situation in which the data in the line plot below might occur. Then give the plot a title and a unit.

SRB 117–119

_____

_____ _____

(title) (unit)



2. Find the following landmarks for the data in the line plot.

   a. minimum: _____ b. maximum: _____ c. mode: _____ d. median: _____

3. Describe a situation in which the data in the stem-and-leaf plot shown below might occur. Then give the plot a title and a unit.

_____

(title)

_____

(unit)

_____

_____

Stems (10s)	Leaves (1s)
3	2
4	0
5	1 3 7
6	0 4 5 6 6 6 7 9
7	1 3 8 8 9
8	0 2 2 5 5 8 8 9
9	0 2 2 5 5 8 9 9

4. Find the following landmarks for the data in the stem-and-leaf plot.

   a. minimum: _____ b. maximum: _____

   c. mode: _____ d. median: _____

Practice

5. 245 * 51 = _____

6. 764 + 37 = _____

7. 2,121 * 4 = _____

8. 1,976 ÷ 38 = _____

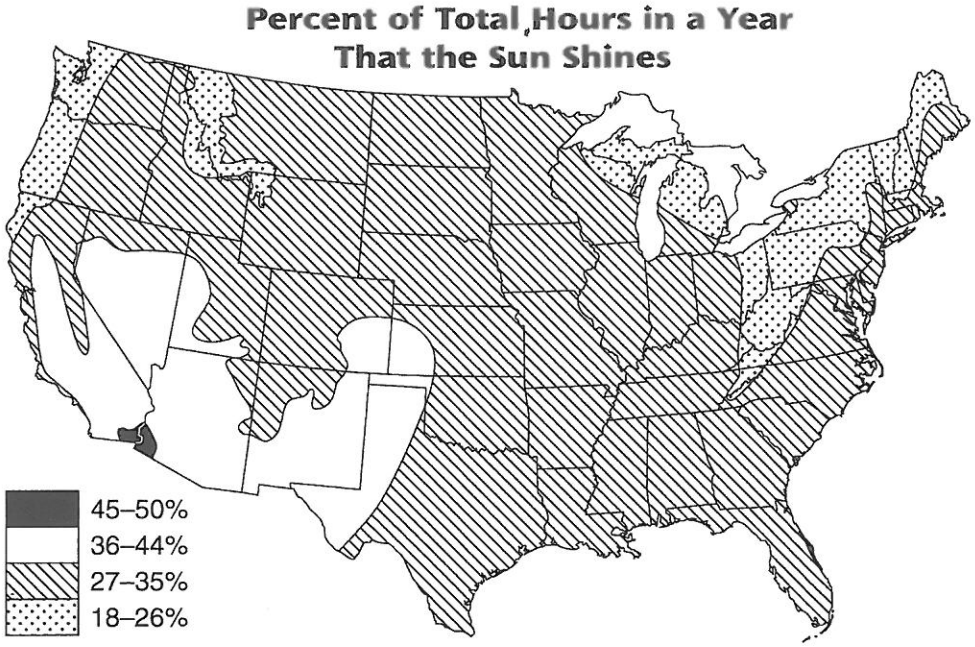
Name Date Time

STUDY LINK 6•7

Contour Map

Study the map below to answer the questions.

SRB 377



1. States where at least part of the state has sunny days more than 45% of the time.

   O Washington O California O Arizona O New York

2. States that border Canada where at least some part of the state has days that are NOT sunny at least 31% of the time.

   O California O Montana O Nebraska O Washington

3. Make up your own question about the map. Answer your question.

   _____

   _____

Practice

4. 149 * 14 = _____

5. 134 * 29 = _____

6. 2,997 ÷ 37 = _____

7. 3,682
   −1,590

Name Date Time

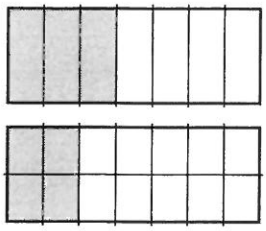
STUDY LINK 6·8

Calculating with Fraction Sticks

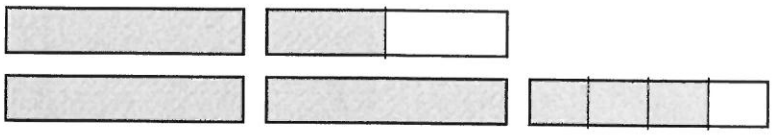
Solve. Use the fraction sticks to help you.

SRB 68–70

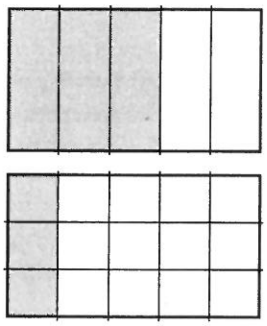
1. $\frac{3}{7} + \frac{4}{14} =$ _____



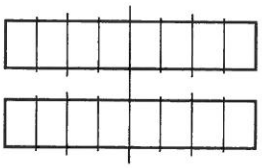
2. $1\frac{1}{2} + 2\frac{3}{4} =$ _____



3. $\frac{3}{5} - \frac{3}{15} =$ _____



4. Write an open number sentence and solve. Shade in the fraction stick to help you.



_____

Practice

Show your work.

5. 408 * 23 = _____

6. 0.85 + 0.3 = _____

7. 492 * 6 = _____

8. $45\overline{)2{,}297} \rightarrow$ _____

Name _____ Date _____ Time _____

STUDY LINK 6•9

Adding and Subtracting Fractions

Multiplication Rule

To find a fraction equivalent to a given fraction, multiply the numerator and the denominator of the fraction by the same number.

$$\frac{a}{b} = \frac{a * n}{b * n}$$

Example 1: $\frac{4}{9} - \frac{1}{3} = ?$

$\frac{1}{3} = \frac{2}{6} = \left(\frac{3}{9}\right) = \frac{4}{12} = \frac{5}{15} = \frac{6}{18} = \ldots$

9 is a common denominator.

$\frac{4}{9} - \frac{1}{3} = \frac{4}{9} - \frac{3}{9} = \frac{1}{9}$

Example 2: $\frac{5}{8} + \frac{2}{5} = ?$

$\frac{5}{8} = \frac{10}{16} = \frac{15}{24} = \frac{20}{32} = \left(\frac{25}{40}\right) = \frac{30}{48} = \ldots$

$\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20} = \frac{10}{25} = \frac{12}{30} = \frac{14}{35} = \left(\frac{16}{40}\right) = \frac{18}{45} = \ldots$

Both fractions can be rewritten with the common denominator 40.

$\frac{5}{8} + \frac{2}{5} = \frac{25}{40} + \frac{16}{40} = \frac{41}{40}$, or $1\frac{1}{40}$

Find a common denominator. Then add or subtract.

1. $\frac{2}{3} + \frac{4}{5} =$ _____

2. $\frac{8}{9} - \frac{5}{6} =$ _____

3. $\frac{3}{4} + 1\frac{1}{2} =$ _____

4. Lisa was 4 feet $10\frac{1}{2}$ inches tall at the end of fifth grade. During the year, she had grown $2\frac{3}{4}$ inches. How tall was Lisa at the start of fifth grade?

_____ feet _____ in.

5. Bill was baking two different kinds of bread. One recipe called for $3\frac{1}{2}$ cups of flour. The other called for $2\frac{1}{3}$ cups of flour. How much flour did Bill need in all?

_____ cups

Name Date 4 Time

STUDY LINK 6•10

Fractions

Find a common denominator. Then add or subtract.

1. $\frac{9}{11} - \frac{1}{2} =$ _____

2. $\frac{5}{9} - \frac{1}{4} =$ _____

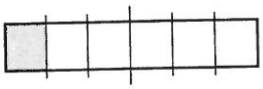
3. $\frac{7}{10} + \frac{4}{15} =$ _____

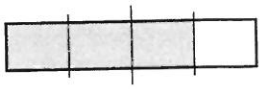
4. $\frac{7}{10} - \frac{4}{15} =$ _____

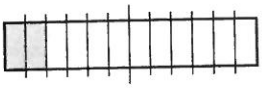
5. $\begin{array}{r} \frac{3}{2} \\ -\ \frac{4}{9} \\ \hline \end{array}$

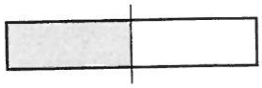
6. $\begin{array}{r} \frac{5}{6} \\ +\ \frac{4}{7} \\ \hline \end{array}$

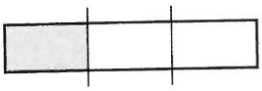
Write the fraction represented by the shaded part of each fraction stick.

7.  _____

8.  _____

9.  _____

10.  _____

11.  _____

12. The sum of the five fractions in Problems 7–11 is _____.

Use the information on Kwame's shopping list to fill in the blanks below.

13. He plans to buy _____ pounds of meat.

14. He plans to buy _____ pounds of cheese.

Kwame's Shopping List

- $\frac{1}{2}$ pound ham
- $\frac{3}{4}$ pound roast beef
- $\frac{2}{3}$ pound turkey
- $\frac{2}{3}$ pound Swiss cheese
- $\frac{1}{4}$ pound Parmesan cheese
- $\frac{2}{3}$ pound cheddar cheese