Fraction Decomposition

Lesson 5-1

DATE TIME

SRB 125–127

Write an equation to show each fraction as the sum of unit fractions.

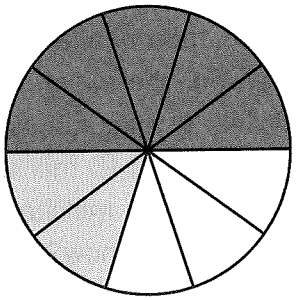
1. $\frac{5}{12}$ _____

2. $\frac{4}{100}$ _____

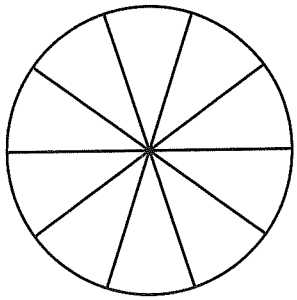
3. Decompose $\frac{7}{10}$ into a sum of fractions with the same denominator in three different ways. Record each decomposition with an equation and justify each one by shading the parts of the circle.

Example:

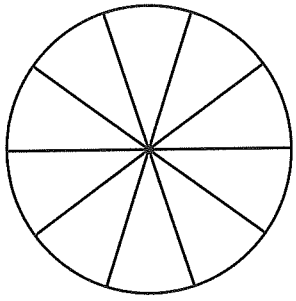
Equation: $\frac{5}{10} + \frac{2}{10} = \frac{7}{10}$



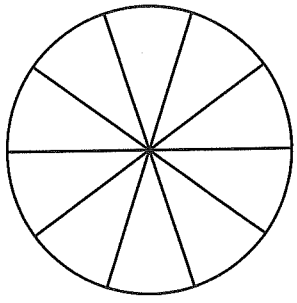
a. Equation: _____



b. Equation: _____



c. Equation: _____



Math Boxes

Lesson 5-1

DATE TIME

Math Boxes

1 Karen is typing a 4,000-word essay. She can type about 30 words per minute. If she types for 45 minutes on Monday and 55 minutes on Tuesday, about how many words will she still have to type to finish her essay?

Estimate:

_____

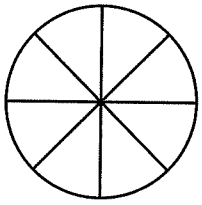
Number model with unknown:

_____

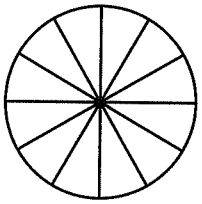
Answer: About _____ words

SRB 47, 82–89

2 **a.** Shade $\frac{2}{4}$ of the whole.



b. Shade $\frac{4}{6}$ of the whole.



SRB 125–126

3 Compare $\frac{2}{3}$ and $\frac{3}{6}$.
Which fraction is greater? _____

Explain how you know.

_____

_____

_____

_____

SRB 148

4 Ming's science beaker contains 2 liters of water. For the experiment, Kelly added 26 milliliters of liquid coloring and Ryan added another 145 milliliters of liquid soap. How many milliliters of liquid are in Ming's beaker now? Show your work.

Answer: _____ milliliters

SRB 193–194

5 **Writing/Reasoning** Look at your answer for Problem 1. Explain how you know the answer is reasonable and makes sense.

_____

_____

_____

_____

SRB 82–89

What Is the Whole?

Lesson 5-2

DATE TIME

Use fraction circle pieces to help you name the whole. Record the name in the whole box. Then write an addition equation to represent the problem.

SRB 130

1. If  is $\frac{1}{2}$, what is the whole?

   Equation: _____

   Whole

2. If  is $\frac{1}{4}$, what is the whole?

   Equation: _____

   Whole

3. If  is $\frac{2}{3}$, what is the whole?

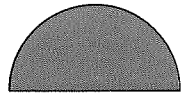
   Equation: _____

   Whole

4. If  is $\frac{2}{5}$, what is the whole?

   Equation: _____

   Whole

5. If  is $\frac{3}{4}$, what is the whole?

   Equation: _____

   Whole

Math Boxes

Lesson 5-2

DATE TIME

Math Boxes

1 **a.** Decompose $\frac{4}{10}$ as the sum of unit fractions.

_____

b. Write a different equation to show $\frac{4}{10}$ decomposed.

_____

SRB 125–127

2 Carrie filled her watering can with 5 liters of water. When she finished watering her plants, there was still 1,500 milliliters of water in her can. How much water did she use? Circle ALL that apply.

A. $3\frac{1}{2}$ liters

B. 6,500 milliliters

C. $3\frac{1}{2}$ quarts

D. 3,500 milliliters

SRB 193–194

3 Blaine School has $26,000 for school improvements. It has already spent $23,570. It plans to add a new front door for $674, a rug for $245, and a new principal's desk for $561. Does the school still have enough money to get a sign that costs $399?

Answer: _____

Explain.

_____

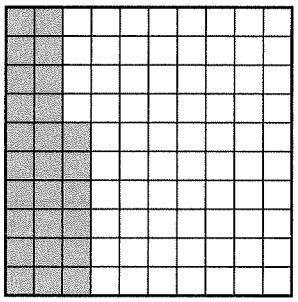
_____

_____

_____

SRB 82–89

4 Write the fraction, decimal, and words for the value shown.



Fraction: _____ Decimal: _____

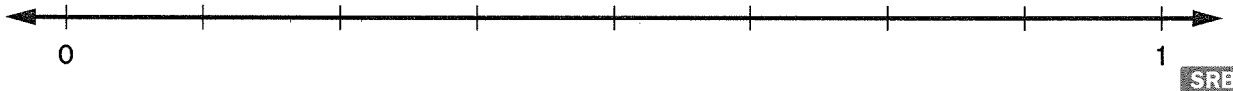
Words: _____

SRB 150–151

5 Fill in the missing fractions.

a.

b.



SRB 135

Fraction Addition

Lesson 5-3

DATE TIME

Solve the number stories. Use a different strategy for each one.

SRB 47, 160–161

1. Ryan and his 3 sisters painted the walls of their family room. Ryan used $\frac{2}{3}$ of a can of paint. Each of his sisters used $\frac{1}{3}$ of the same-size can. How much paint did they use all together?

   a. Fill in the whole box.

Whole

   b. Number model with unknown: _____

   c. One way to solve a fraction addition problem:

   d. Answer (with unit): _____

2. Allie and Cherice both run to stay in shape. On Saturday, Allie ran $\frac{3}{8}$ of a mile more than Cherice. Cherice ran $\frac{7}{8}$ of a mile. How far did Allie run?

   a. Fill in the whole box.

Whole

   b. Number model with unknown: _____

   c. A different way to solve a fraction addition problem:

   d. Answer (with unit): _____

Add.

3. $\frac{2}{10} + \frac{5}{10}$ = _____

4. $\frac{80}{100} + \frac{30}{100}$ = _____

5. _____ $= \frac{2}{6} + \frac{3}{6} + \frac{1}{6}$

Reviewing Decimal Concepts

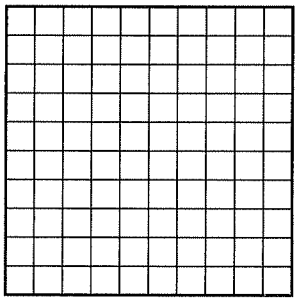
Lesson 5-3

DATE TIME

Shade each grid to show the decimal.

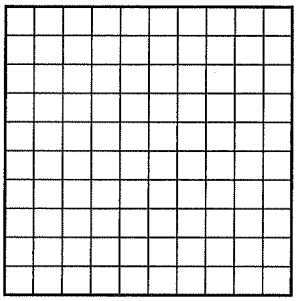
SRB 150–154

1 **a.**



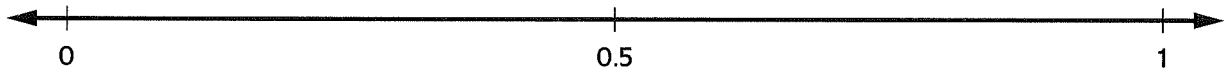
0.73

b.



0.4

2 **a.** Place the following decimals on the number line: 0.82, 0.29



b. Write each decimal as a fraction. _____ _____

3 Write each number in words.

a. 2.36 _____ **b.** 0.9 _____

4 Use <, >, or = to complete each comparison.

a. $\frac{63}{100}$ ____ 0.91 **b.** 9.83 ____ 9.8 **c.** 1.04 ____ $1\frac{4}{100}$ **d.** 0.7 ____ 0.80

e. Explain how you compared the two decimals in Problem 4d.

_____

_____

5 Mrs. Garner's class raced in the 40-yard dash. Below are the six fastest times in seconds: 9.8, 10.06, 9.81, 11.34, 12.2, 10.6.

a. Put the times in order from the least to the greatest.

_____, _____, _____, _____, _____, _____

b. Cassie said, "I think 10.6 is less than 10.06 since it doesn't have any hundredths."

Is she correct? Explain your answer. _____

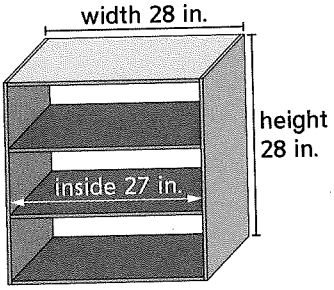
_____

Math Boxes

Lesson 5-3

DATE TIME

1 Roger wants to build a square display case out of teak wood. The outside frame is made of boards that are 28 inches long. The 2 shelves are each 27 inches long. The store has 175 inches of teak wood available.



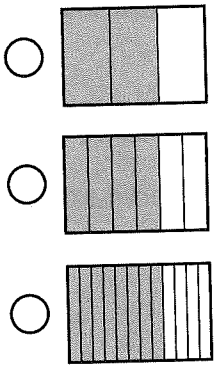
Does the store have enough? _____

Number model with unknown:

_____

SRB 47, 82–89

2 Which rectangle has $\frac{2}{3}$ shaded?
Fill in the circle next to the best answer.



○ All of the above

○ None of the above

SRB 125–126

3 Compare $\frac{2}{5}$ and $\frac{9}{10}$.
Which fraction is greater? _____

Explain how you know.

_____

_____

_____

_____

SRB 82–89

4 The Larsen family's motor home has 2 large gasoline tanks. Each tank has a capacity of 95 liters. On a recent trip the Larsens refueled 3 times with the following amounts of gasoline:

Stop 1	135 liters
Stop 2	164 liters
Stop 3	159 liters

How many milliliters of gas did they add to the tanks on their trip?

_____ milliliters

SRB 150–151

5 **Writing/Reasoning** Look at Problem 2. Explain how you chose your answer.

_____

_____

SRB 125–126

Adding Mixed Numbers

Lesson 5-4

DATE TIME

Solve the number stories. Use a different strategy for each one.

SRB 47, 162–163

1. Balram drew a line segment $2\frac{1}{4}$ inches long. Then he made the line segment $1\frac{2}{4}$ inches longer. How long is the line segment now?

   a. Fill in the whole box.

Whole

   b. Number model with unknown: _____

   c. One way to solve a mixed-number addition problem:

   d. Answer (with unit): _____

2. Three softball players brought water for the team practice. Jillian brought $2\frac{1}{3}$ gallons. Sreya brought $1\frac{2}{3}$ gallons. Ayla brought $2\frac{2}{3}$ gallons. How much water did the softball team have for their practice?

   a. Fill in the whole box.

Whole

   b. Number model with unknown: _____

   c. A different way to solve a mixed-number addition problem:

   d. Answer (with unit): _____

Add. Show your work.

3. $2\frac{3}{6} + 2\frac{3}{6}$ = _____

4. $3\frac{50}{100} + 4\frac{75}{100}$ = _____

5. $1\frac{5}{12} + 2\frac{6}{12}$ = _____

6. $5\frac{4}{10} + 3\frac{2}{10} + 4\frac{8}{10}$ = _____

Math Boxes

Lesson 5-4

DATE TIME

1 **a.** Decompose $\frac{3}{8}$ as the sum of unit fractions.

_____

b. Write a different equation to show $\frac{3}{8}$.

_____

SRB 125–127

2 A milk truck's tank holds about 6,300 gallons of milk. If the first dairy farmer has 948 gallons of milk to be picked up, about how many more gallons can the tank hold?

Show your work.

Answer: _____ gallons

How many quarts is that?

_____ quarts

SRB 196–197

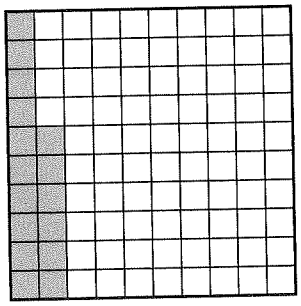
3 The school raffle raised $197 on Monday, $123 on Tuesday, $81 on Wednesday, and $56 on Thursday. How much money did the raffle raise on these days?

Show your work.

Answer: $ _____

SRB 82–89

4 Write the fraction, decimal, and words for the value shown.



Fraction: _____ Decimal: _____

Words: _____

SRB 150–151

5 Fill in the missing fractions.

a.

_____ _____ _____ _____

b.

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

SRB 135

Adding Tenths and Hundredths

Lesson 5-5

DATE TIME

Use what you know about equivalent fractions to add. Write an equation to show your work.

SRB 166–168

1. 5 tenths + 27 hundredths

   Equation (in words): _____

2. 16 hundredths + 7 tenths

   Equation (in words): _____

3. $\frac{8}{100} + \frac{6}{10}$

   Equation: _____

4. $\frac{42}{100} + \frac{9}{10}$

   Equation: _____

5. $\frac{3}{10} + \frac{50}{100}$

   Equation: _____

6. $\frac{1}{10} + \frac{5}{100} + \frac{20}{10} + \frac{55}{100}$

   Equation: _____

7. $1\frac{2}{10} + 6\frac{35}{100}$

   Equation: _____

Try This

8. Ali shaded 0.4 of a hundreds grid. Tarun shaded 0.32 of the same grid. How much of the grid did they shade in all?

   Number model with unknown: _____

   Answer: _____ of the grid

   Explain how you got your answer.

   _____

   _____

   _____

   _____

Solving Multistep Multiplication Number Stories

Lesson 5-5

DATE TIME

A stand sold souvenirs at a basketball game. The table lists the prices and the number of items sold.

Price	Item	Number of Items Sold
$17	Umbrella	25
$50	Hoodie	58
$30	T-shirt	75
$13	Knit hat	99
$9	Cap	3,512
$5	Key chain	6,490
$3	Program	8,459

SRB 47, 103–108

1. How much money was spent on umbrellas and hoodies?

   Number model with unknown: _____

   Answer (with unit): _____

2. How much money was spent on key chains and knit hats?

   Number model with unknown: _____

   Answer (with unit): _____

3. How much more money was spent on key chains than on caps that day?

   Number model with unknown: _____

   Answer (with unit): _____

4. How much more money was spent on programs than on T-shirts?

   Number model with unknown: _____

   Answer (with unit): _____

5. Ed had $100 and wanted to spend as much as possible. What might he have bought?

   Answer (with units): _____

Try This

6. How much money did the souvenir stand make in all that day?

   Answer (with unit): _____

Math Boxes

Lesson 5-5

DATE TIME

Math Boxes

1 Dariush ate $\frac{3}{8}$ of the coffee cake while Eton ate $\frac{4}{8}$. How much of the coffee cake did the boys eat?

_____ of the coffee cake

SRB 160–161

2 The maximum weight allowed at one time on a walking bridge is 400,000 grams. Can these people safely stand on the bridge together?

_____

Kyle	71 kg	Cara	59 kg
Betty	66 kg	Roge	79 kg
Devin	86 kg		

How many grams do they weigh all together?

_____ grams

SRB 188–189

3 Multiply. Show your work.

$$\begin{array}{r} 483 \\ \times \quad 9 \\ \hline \end{array}$$

Estimate:

_____

Answer: _____

SRB 103–108

4 Use your fraction circle pieces to solve this problem.

If  is $\frac{1}{4}$, then what is the whole?

_____

SRB 130

5 **Writing/Reasoning** Solve Problem 3 using a different strategy. Show your work.

SRB 103–108

Fraction Sums of One

Lesson 5-6

DATE TIME

Use fraction circle pieces. The red circle is the whole.

Make two different combinations of fraction circle pieces that form one whole.
Sketch each combination and write a fraction addition equation for each.

1 Show your first sketch here:	2 Show your second sketch here:
Write a fraction addition equation:	Write a fraction addition equation:

Math Boxes

Lesson 5-6

DATE TIME

Math Boxes

1 Kenny had $1\frac{3}{8}$ bags of marbles, Marla had $1\frac{4}{8}$ bags of marbles, and Karen had $1\frac{1}{8}$ bags of marbles. How many bags of marbles did they have in all?

Answer: _____ bags of marbles

SRB 162–163

2 **a.** Draw and label ray *RT*.

b. Draw and label line segment *LB*.

SRB 226–227

3 Fred purchased items at 3 different stores for his home remodeling project. At Store A he spent $587, at Store B he spent $391, and at Store C he spent $1,008. How much money did Fred have left if he started with $2,564?

Answer: $ _____

SRB 26

4 Put a check next to all the fraction pairs that are equivalent to $\frac{3}{4}$.

- ☐ $\frac{4}{8}$ and $\frac{5}{12}$
- ☐ $\frac{6}{10}$ and $\frac{5}{6}$
- ☐ $\frac{6}{8}$ and $\frac{9}{12}$
- ☐ $\frac{12}{16}$ and $\frac{75}{100}$

SRB 141

5 Add.

a. $\frac{3}{10} + \frac{50}{100} =$ _____

b. $\frac{5}{10} + \frac{35}{100} =$ _____

c. $\frac{3}{100} + \frac{4}{10} =$ _____

d. $\frac{3}{10} + \frac{6}{100} =$ _____

SRB 166–167

6 Compare the decimals using >, <, or =.

a. 5.05 _____ 5.03

b. 0.36 _____ 0.69

c. 70.09 _____ 70.05

d. 0.4 _____ 0.40

SRB 154–155

Fraction Subtraction Number Stories

Lesson 5-7

DATE TIME

Solve the number stories. Use a different strategy for each one.

SRB 160–161

1. The average amount of precipitation in Death Valley, California, in January is $\frac{39}{100}$ of an inch. The average in February is $\frac{52}{100}$ of an inch. On average, how much more precipitation is there in February than in January?

   a. Fill in the whole box.

Whole

   b. Number model with unknown: _____

   c. One way to solve a fraction subtraction problem:

   d. Answer (with unit): _____

2. A vegetable lasagna recipe called for $\frac{3}{4}$ teaspoon of pepper. Caleb used $\frac{1}{4}$ teaspoon when he grilled the vegetables. He added the rest to the cheese mix. How much pepper did Caleb add to the cheese mix?

   a. Fill in the whole box.

Whole

   b. Number model with unknown: _____

   c. A different way to solve a fraction subtraction problem:

   d. Answer (with unit): _____

Subtract.

3. $\frac{7}{4} - \frac{3}{4} =$ _____

4. _____ $= \frac{10}{12} - \frac{4}{12}$

5. $\frac{5}{8} - \frac{3}{8}$

6. $1 - \frac{38}{100}$

Math Boxes

Lesson 5-7

DATE TIME

1 Martha baked an apple pie for her family and cut it into 8 pieces. The family ate $\frac{2}{8}$ of the pie on Tuesday, $\frac{6}{8}$ of the pie on Wednesday, and $\frac{4}{8}$ of the pie on Thursday.

Fill in the oval next to the true statement.

- ◯ There are 4 people in the family.
- ◯ Some did not eat pie.
- ◯ This story is impossible.
- ◯ Each person ate 2 pieces.

SRB 160–161

2 Joy Lee added together 8 ounces of butter, 1 pound of flour, 2 ounces of powdered sugar, and 12 ounces of regular sugar in a bowl. She thinks she has 23 ounces of ingredients in the bowl. Is she correct? Explain.

SRB 191–192

3 Estimate and then solve.

$$\begin{array}{r} 784 \\ \times \quad 9 \\ \hline \end{array}$$

Estimate: _____

Answer: _____

SRB 103–108

4 Use your fraction circle pieces to solve this problem.

If 

is $\frac{2}{3}$, what is the whole?

_____

SRB 130

5 **Writing/Reasoning** Explain how you found the answer to Problem 4.

SRB 130

Subtracting Mixed Numbers

Lesson 5-8

DATE TIME

Solve the number stories. Use a different strategy for each one.

SRB 164–165

1. Rafael drew two line segments. The combined length was 7 inches. One of the line segments was $2\frac{3}{8}$ inches long. How long was the other line segment?

   a. Fill in the whole box.

Whole

   b. Number model with unknown: _____

   c. One way to solve a mixed-number subtraction problem:

   d. Answer (with units): _____

2. The wingspan of the dragonfly is about $6\frac{7}{10}$ centimeters. It is about $1\frac{9}{10}$ centimeters wider than the wingspan of the mayfly. What is the wingspan of the mayfly?

   a. Fill in the whole box.

Whole

   b. Number model with unknown: _____

   c. A different way to solve a mixed-number subtraction problem:

   d. Answer (with units): _____

Subtract. Show your work.

3. $6\frac{3}{5} - 2\frac{1}{5}$ = _____

4. $4\frac{45}{100} - 2\frac{90}{100}$ = _____

5. $6\frac{1}{4} - 2\frac{3}{4} =$ _____

6. _____ $= 3 - 1\frac{4}{6}$

Math Boxes

Lesson 5-8

DATE TIME

Math Boxes

1 Six boxes of gum balls spilled onto the floor. Bonnie picked up enough to fill $2\frac{1}{6}$ boxes, Carl picked up $2\frac{2}{6}$ boxes, and Betty picked up $1\frac{2}{6}$ boxes. How many boxes of gum balls did they pick up?

Answer: _____ boxes

Did they find all of the gum balls?

_____

SRB 162–163

2 Draw 2 rays with the same endpoint. Label the endpoint *E*. Label a point on each of the rays.

Name one ray.

_____

Name another ray.

_____

Name the shape the 2 rays make.

_____

SRB 226–228

3 A lamp at Benson's Lighting costs $26 less than the same $203 lamp at Lights and More. If Jeremy buys the lamp at Benson's, along with lightbulbs for $18, how much change will he receive from $200?

Answer: $ _____

SRB 26

4 Circle the fraction that is not equivalent.

a. $\frac{2}{10}$ $\frac{3}{6}$ $\frac{1}{5}$ $\frac{20}{100}$

b. $\frac{3}{5}$ $\frac{2}{4}$ $\frac{4}{8}$ $\frac{1}{2}$

c. $\frac{3}{12}$ $\frac{2}{8}$ $\frac{3}{10}$ $\frac{1}{4}$

d. $\frac{1}{3}$ $\frac{3}{8}$ $\frac{2}{6}$ $\frac{4}{12}$

SRB 141

5 $\frac{4}{100} + \frac{9}{10} = w$

Fill in the circle next to the best answer.

- ○ **A.** $w = \frac{13}{10}$
- ○ **B.** $w = \frac{13}{100}$
- ○ **C.** $w = \frac{94}{100}$
- ○ **D.** $w = \frac{49}{100}$

SRB 166–167

6 Use <, >, or = to make the number sentences true.

a. 7.89 _____ 7.9

b. 4.52 _____ 4.09

c. 0.60 _____ 0.6

d. 9.01 _____ 8.97

SRB 154–155

Head Sizes

Lesson 5-9

DATE TIME

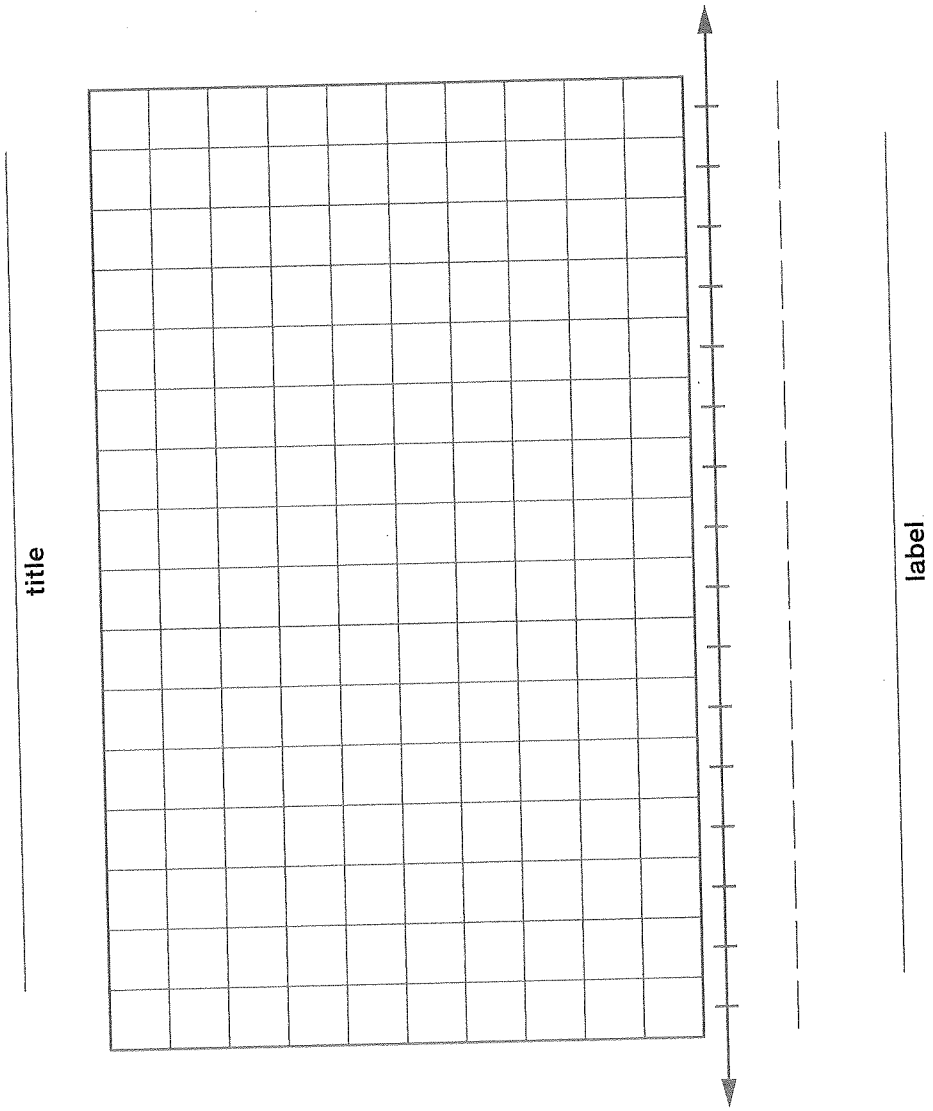
SRB 214–215

Collect data to display on a line plot.

1. Ask your partner to help you measure the distance around your head.
   - Wrap the tape measure once around your head at the longest point.
   - See where the tape touches the end tip of the tape measure.
   - Read the mark where the tape touches the end tip.
   - Read this length to the nearest $\frac{1}{2}$ centimeter.

   Record your head size: About _____ cm

2. Make a line plot of the head-size data for the class.



Backpack Weights

Lesson 5-9

DATE TIME

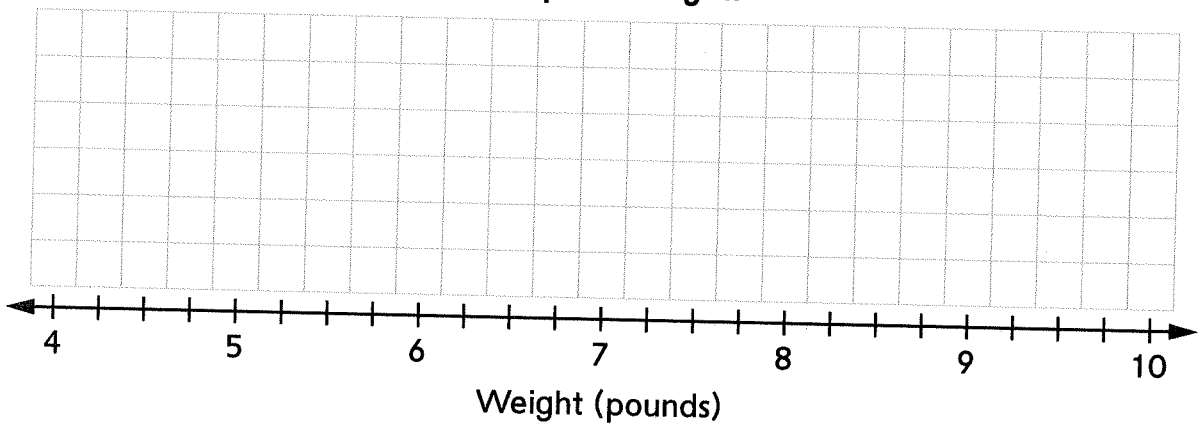
A fourth-grade class at Hillside Elementary School used a spring scale to weigh their full backpacks and recorded the weights to the nearest $\frac{1}{4}$ pound.

SRB 162–163, 214–216

Backpack Weights (to the nearest $\frac{1}{4}$ pound)											
4	$6\frac{1}{2}$	$7\frac{1}{2}$	$4\frac{1}{2}$	$7\frac{1}{4}$	$5\frac{1}{4}$	$9\frac{1}{4}$	$6\frac{1}{2}$	$8\frac{3}{4}$	$9\frac{1}{2}$	$5\frac{3}{4}$	7	$7\frac{3}{4}$
$5\frac{3}{4}$	7	$7\frac{1}{4}$	$8\frac{1}{4}$	$6\frac{1}{4}$	$7\frac{3}{4}$	$9\frac{1}{4}$	$7\frac{1}{4}$	$4\frac{3}{4}$	$5\frac{1}{4}$	$5\frac{1}{4}$	$9\frac{3}{4}$	$7\frac{1}{4}$

Plot the data set on the line plot.

Backpack Weights



Use the completed line plot to answer the questions.

1. How many students carry a backpack that weighs $5\frac{1}{4}$ pounds?

   _____ students

2. How many students carry a backpack that weighs more than $7\frac{1}{2}$ pounds?

   _____ students

3. How many students carry a backpack that weighs less than $5\frac{3}{4}$ pounds?

   _____ students

4. Which weight is carried by the greatest number of students?

   _____ pounds

Backpack Weights (continued)

Lesson 5-9

DATE TIME

5. To avoid back pain and other health problems, the heaviest weight a typical fourth grader should carry is between 7 and $10\frac{1}{2}$ pounds. How many students carry backpacks that follow this guideline?

_____ students

6. How much does the heaviest backpack weigh?

_____ pounds

7. How much does the lightest backpack weigh?

_____ pounds

8. What is the difference in weight between the heaviest and lightest backpacks?

_____ pounds

9. What is the difference between the weight of the heaviest backpack and the weight carried by most students?

_____ pounds

10. **a.** What is the combined weight of all of the backpacks weighing more than $4\frac{1}{2}$ pounds and less than $5\frac{1}{2}$ pounds?

_____ pounds

b. Is this more or less than the combined weight of the backpacks weighing more than 6 pounds and less than 7 pounds?

_____

c. How much more or less?

_____ pounds

Multiplicative Comparison

Lesson 5-9

DATE TIME

SRB 56–57

1. Granola bars come in two different-size packages. The large package has 18 granola bars, which is 3 times more than the number in the small package. How many granola bars are in the small package?

   Equation with unknown: _____

   Answer: _____ granola bars

2. Kate has two dogs, Mose and Milo. Mose weighs 6 times as much as Milo. Mose weighs 54 pounds. How much does Milo weigh?

   Equation with unknown: _____

   Answer: _____ pounds

3. Rachel and Trevor knit scarves. Rachel has 8 times as much yarn left over as Trevor. Rachel has 56 yards of yarn left. How much yarn does Trevor have left?

   Equation with unknown: _____

   Answer: _____ yards

4. Jamal and Marcia have blocks. Jamal has 350 blocks, which is 7 times more than Marcia has. How many blocks does Marcia have?

   Equation with unknown: _____

   Answer: _____ blocks

5. Patrick is buying crayons for his son, Nicholas. The large box, with 184 crayons, has 4 times as many crayons as the small box. How many crayons are in the small box?

   Equation with unknown: _____

   Answer: _____ crayons

6. Diane and Judy are saving pennies. Diane has saved 20 times as many pennies as Judy. Diane has saved 12,000 pennies. How many pennies has Judy saved?

   Equation with unknown: _____

   Answer: _____ pennies

Math Boxes

Lesson 5-9

DATE TIME

1 Teri and her brother each got large boxes of popcorn at the theater. Teri had $\frac{5}{6}$ of her popcorn left at the end of the movie. Her brother had only $\frac{2}{6}$ of his popcorn left.

How much more of his box of popcorn did her brother eat than Teri?

Answer: _____ of a box

SRB 160–161

2 Joy bought 6 extra-large bottles of juice on sale. Each bottle contains 3 liters of juice. How many milliliters of juice did she buy?

_____ milliliters

SRB 193–194

3 Multiply using partial products.

$$\begin{array}{r} 67 \\ \times\ 59 \\ \hline \end{array}$$

SRB 106–107

4 Ms. Swanson has a backyard measuring 36 feet by 42 feet. How many square feet of space is the backyard?

Number model with unknown:

_____

Answer: _____ square feet

SRB 204, 103–108

5 **Writing/Reasoning** Explain the steps you used to find the answer to Problem 3.

_____

_____

_____

_____

_____

_____

SRB 106–107

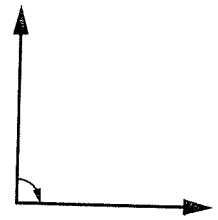
Rotations and Angle Measures

Lesson 5-10

DATE TIME

Describe each angle by the amount of rotation. Use the words *full-turn*, *three-quarter-turn*, *half-turn*, and *quarter-turn*.

SRB 207

1. 

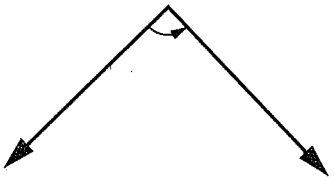
Amount of rotation: _____

2. 

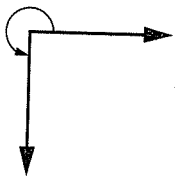
Amount of rotation: _____

3. 

Amount of rotation: _____

4. 

Amount of rotation: _____

5. 

Amount of rotation: _____

6. Draw your own.

Amount of rotation: _____

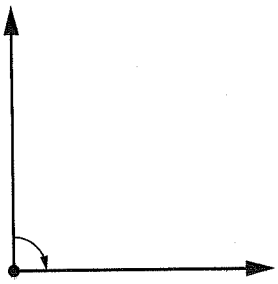
Measuring Angles

Lesson 5-10

DATE TIME

Use wedges to measure each angle.

1

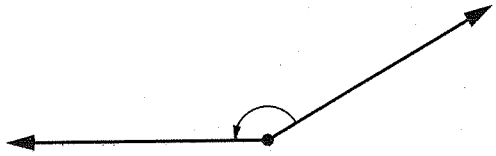


Measurement 1: _____ wedge(s)

Estimate: _____ light green wedge(s)

Measurement 2: _____ light green wedge(s)

2

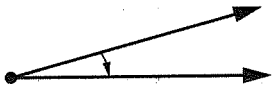


Measurement 1: _____ wedge(s)

Estimate: _____ light green wedge(s)

Measurement 2: _____ light green wedge(s)

3

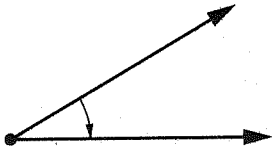


Measurement 1: _____ wedge(s)

Estimate: _____ light green wedge(s)

Measurement 2: _____ light green wedge(s)

4



Measurement 1: _____ wedge(s)

Estimate: _____ light green wedge(s)

Measurement 2: _____ light green wedge(s)

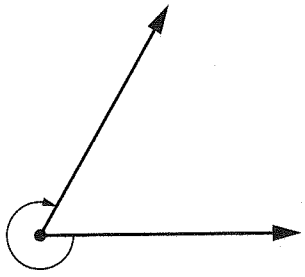
5

Measurement 1: _____ wedge(s)

Estimate: _____ light green wedge(s)

Measurement 2: _____ light green wedge(s)

6



Measurement 1: _____ wedge(s)

Estimate: _____ light green wedge(s)

Measurement 2: _____ light green wedge(s)

Math Boxes
Preview for Unit 6

Lesson 5-10

DATE TIME

Math Boxes

1 **a.** 5 * _____ = 30

b. _____ * 7 = 42

c. 8 * _____ = 64

d. _____ * 9 = 63

e. _____ * 6 = 48

f. 6 * _____ = 36

SRB 109

2 Draw angle *JKL*.

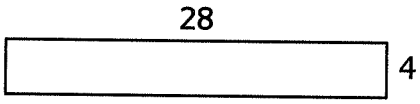
What is the vertex? _____

Name one ray. _____

Name the other ray. _____

SRB 227–228

3 Find the area.



Area: _____ square units

SRB 103–108, 204

4 Louis had 55 superhero cards. His brother had 35 cards. They divided them evenly among 9 friends. How many cards did each friend receive?

Number model with unknown:

_____

Answer: _____ cards

SRB 26, 47

5 Fill in the blanks.

a. 42/6 = _____ 420/6 = _____

b. 72/8 = _____ 720/8 = _____

c. 54/9 = _____ 540/9 = _____

d. 40/8 = _____ 400/8 = _____

e. 56/7 = _____ 560/7 = _____

f. 81/9 = _____ 810/9 = _____

SRB 109–110

Math Boxes

Lesson 5-11

DATE TIME

1 Subtract.

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

b. _____ $= 2\frac{5}{8} - 1\frac{6}{8}$

c. $3\frac{5}{10} - 2\frac{8}{10} =$ _____

d. _____ $= 4\frac{2}{6} - 1\frac{5}{6}$

SRB 164–165

2 Compare the decimals using >, <, or =.

a. 3.5 _____ 3.05

b. 0.09 _____ 0.30

c. 5.55 _____ 4.99

d. 10.06 _____ 10.6

e. 0.9 _____ 0.90

SRB 154–155

3 Chuck and Miles filled $\frac{3}{4}$ of a bag with leaves in the morning. In the afternoon they filled $\frac{3}{4}$ of another bag. In all, how many bags did they fill? Fill in the circle next to all that apply.

(A) $\frac{6}{4}$ bags

(B) $\frac{6}{8}$ of a bag

(C) $1\frac{1}{2}$ bags

(D) $1\frac{2}{4}$ bags

SRB 160–161

4 The Sunrise Food bakers need to order flour. The shelves for flour can only hold 30 kilograms of weight. The bakers ordered 9,641 grams of white flour, 5,309 grams of unbleached flour, 8,962 grams of rye flour, and 5,301 grams of gluten-free flour. How many more grams can the shelves hold?

Answer: _____ grams

SRB 188–189

5 **Writing/Reasoning** In Problem 2b, you compared 0.09 to 0.30. How did you decide which was larger?

_____

_____

_____

_____

SRB 154–155

Angle Measures

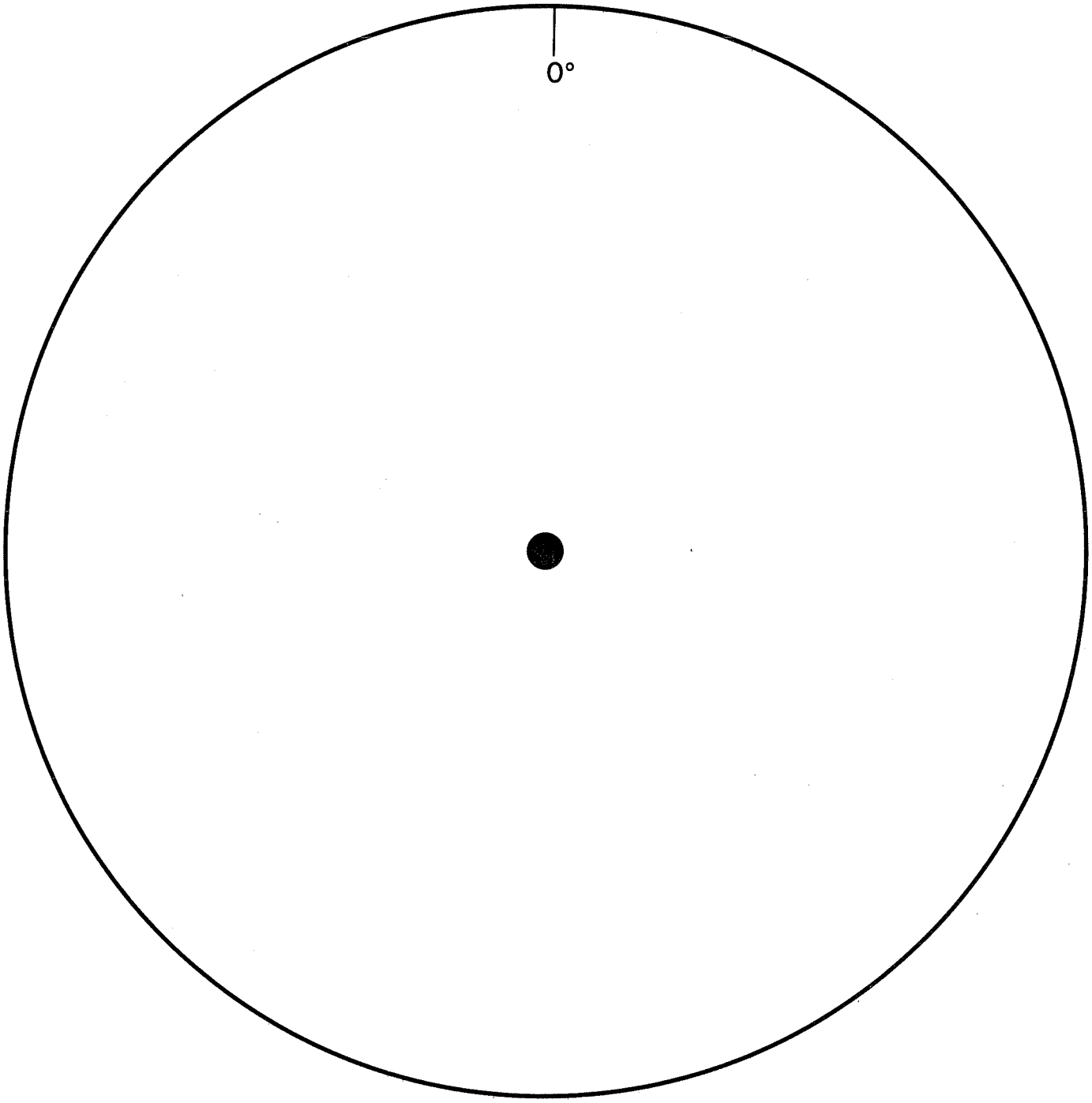
Lesson 5-11

DATE TIME

Connect 2 straws with a twist tie. Bend the twist tie at the connection to form a vertex.

- Place the straws with the vertex on the center of the circle.
- Place both straws pointing to 0°.

Keep one straw pointing to 0°. Move the other straw to form angles.



Estimating Angle Measures

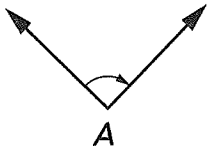
Lesson 5-11

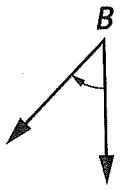
DATE TIME

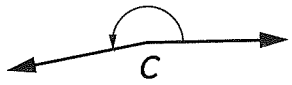
SRB 207, 229

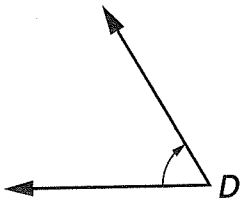
Look at the angle. Decide whether it is acute, right, obtuse, or reflex. Estimate the measurement of each angle in degrees.

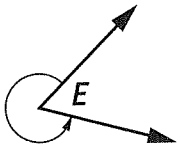
Angle	Type	Estimated Measurement
A		About _____ °
B		About _____ °
C		About _____ °
D		About _____ °
E		About _____ °
F		About _____ °

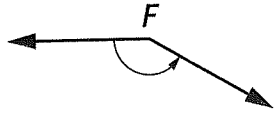










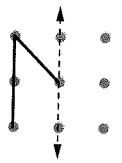


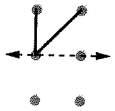
Lesson 5-12

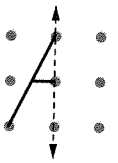
DATE TIME

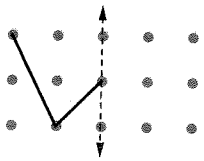
Each picture shows one-half of a letter. The dashed line is the line of symmetry. Guess what the letter is. Then draw the other half of the letter.

SRB 238

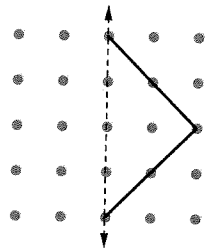
1. 

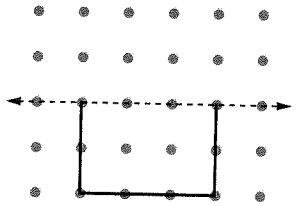
2. 

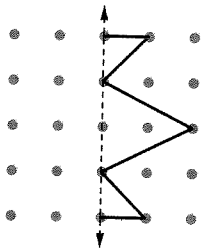
3. 

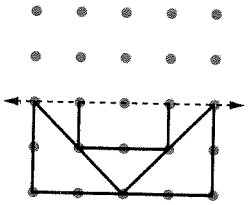
4. 

Draw the other half of each symmetric shape below.

5. 

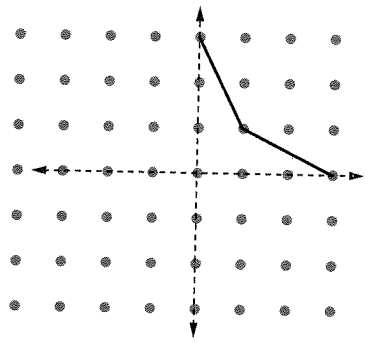
6. 

7. 

8. 

Try This

9. The picture at the right shows one-fourth of a symmetric shape and two lines of symmetry. Draw the mirror image for each line of symmetry.



10. The finished figure in Problem 9 has 2 more lines of symmetry. Draw them.

Solving Measurement Number Stories

Lesson 5-12

DATE TIME

SRB 292

Solve. Show your work in the space provided.

1. The Millman family's new baby weighs 6 pounds, 7 ounces. The Chan family's new baby weighs 7 pounds, 6 ounces. How many more ounces does the Chan's baby weigh than the Millman's?

Answer: _____ ounces

2. A ream of paper weighs about 5 pounds. Blaine School ordered 125 reams. Fitch School ordered 140 reams. About how many pounds of paper were ordered all together?

Answer: _____ pounds

3. Three friends weigh 92 pounds each. Four others weigh 85 pounds each. How many ounces do these 7 students weigh all together?

Answer: _____ ounces

4. Our water is delivered in 19 liter bottles. We usually order 20 bottles at a time. How many milliliters is that all together?

Answer: _____ milliliters

5. It took us 3 hours and 15 minutes to drive to the family reunion and 2 hours and 50 minutes to get back home. How many minutes is that in all?

Answer: _____ minutes

Math Boxes

Lesson 5-12

DATE TIME

1 A pizza was cut into twelfths. Brooke ate $\frac{5}{12}$ and Blair ate $\frac{4}{12}$. How much pizza is left?

Answer: _____

SRB 160–161

2 **a.** Tess brought 23 gallons of cider for the Fall Festival. How many cups is that?

Answer: _____ cups

b. If Tess sells all the cider for $2 per cup, how much money will she collect?

Answer: _____

SRB 196–197

3 Multiply using partial products.

a.
$$\begin{array}{r} 74 \\ *\ 57 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 58 \\ *\ 85 \\ \hline \end{array}$$

SRB 106–107

4 Find the area of rectangles with the following dimensions.

a. Length: 70 ft

Width: 8 ft

Area: _____ sq ft

b. Width: 9 yd

Length: 40 yd

Area: _____ sq yd

SRB 204

5 **Writing/Reasoning** Explain how you solved Problem 1.

_____

_____

_____

_____

SRB 160–161

Math Boxes

Lesson 5-13

DATE TIME

1 Subtract.

a. $1\frac{1}{8} - \frac{3}{8} =$ _____

b. _____ $= 2\frac{5}{10} - 1\frac{6}{10}$

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

d. $5\frac{1}{6} - 2\frac{5}{6} =$ _____

SRB 164–165

2 Compare the decimals using >, <, and =.

a. 3.45 _____ 3.09

b. 8.5 _____ 8.56

c. 0.3 _____ 3.0

d. 0.7 _____ 0.07

e. 0.11 _____ 0.10

SRB 154–155

3 Two sisters gathered eggs from the chicken coop. Coleen collected $\frac{9}{12}$ dozen and Mitzi collected $\frac{11}{12}$ dozen. How many dozens of eggs did the sisters collect? Write a number model to show your solution.

Number model with unknown:

_____

Answer: _____ dozen

SRB 47, 160–161

4 At the Pick-Your-Own blueberry patch, the Larch family hopes to pick 25 kilograms of blueberries. Fiona picked 3,467 grams, and Kevin picked 6,103 grams. Their twin siblings worked together to pick 9,211 grams. How many grams of blueberries do the parents need to pick to reach their goal?

Answer: _____ grams

SRB 188–189

5 **Writing/Reasoning** Tanya and Robert got different answers when they added $\frac{9}{12} + \frac{11}{12}$ in Problem 3. Tanya got $1\frac{8}{12}$, and Robert got $\frac{20}{24}$.

Who is correct?_____

Explain why the other answer is not correct.

_____

_____

_____

_____

_____

SRB 160–161

Planning a School Fair

Lesson 5-13

DATE TIME

Ian and Syreeta are planning the Quincy Elementary School Spring Fair. Ian gathered information about possible entertainers, while Syreeta gathered information about possible food choices. They presented their information to the school principal in the tables below.

SRB 26, 47, 82–87

Entertainment Option	Number of Performers	Hours of Entertainment	Cost per Performer
Jugglers	3	2	$30/hour
Singing Group	4	3	$16/hour
Tumblers	8	3	$22/hour
Tap Dancers	6	2	$33/hour

Food Option	Number of Pieces/ Items per Package	Number of Packages Needed	Cost per Piece/ Item
Corn-on-the-cob	4	24	$2
Burritos	8	13	$3
Sandwiches	5	18	$6
Baked Potatoes	10	9	$2

The principal has several questions for Ian and Syreeta about what they learned. Help them answer the principal's questions. Express solution strategies with single number models and answers with correct units.

1. How much more would it cost to hire the tumblers than the singing group?

   Number model with unknown:

   _____

   Estimate: _____

   Answer (with unit): _____

Planning a School Fair (continued)

2. How much would it cost to buy the burritos and the sandwiches?

   Number model with unknown:

   _____

   Estimate: _____

   Answer (with unit): _____

3. If we wanted the tap dancers to perform for 6 hours, how much would it cost?

   Number model with unknown:

   _____

   Estimate: _____

   Answer (with unit): _____

4. If we wanted to serve only burritos, we would need 3 times as many packages as the number stated in the table. How much would that cost?

   Number model with unknown:

   _____

   Estimate: _____

   Answer (with unit): _____

Try This

5. If we hired all the performers and wanted to give them each a sandwich as a snack, how many packages of sandwiches would we need for the performers?

   Answer (with unit): _____

Math Boxes
Preview for Unit 6

Lesson 5-14

DATE TIME

Math Boxes

1 Complete.

a. 25 = _____ * 5

b. _____ * 4 = 32

c. 7 * _____ = 49

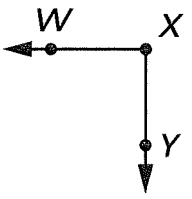
d. 11 * _____ = 44

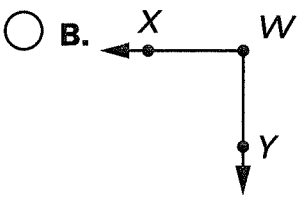
e. 9 * 7 = _____

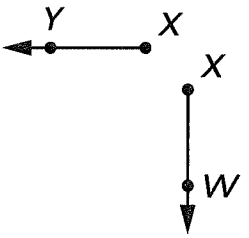
f. 72 = _____ * 9

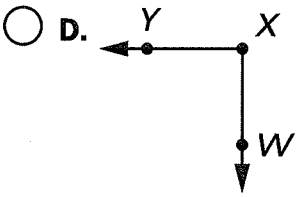
SRB 109

2 Which angle below shows angle *WXY*? Fill in the circle next to all that apply.

○ **A.** 

○ **B.** 

○ **C.** 

○ **D.** 

SRB 227–228

3 The Merryman playground is 85 feet long and 50 feet wide. How much area does it cover?

Area: _____ square feet

SRB 103–108, 204

4 There are 35 colored pencils in a basket and 13 in a box. If 3 friends share them equally, how many will each friend get?

Number model with unknown:

_____

Answer: _____ pencils

SRB 26, 47

5 Fill in the blanks.

a. 45 ÷ _____ = 9	450 ÷ 9 = _____
b. _____ ÷ 8 = 8	640 ÷ _____ = 8
c. 36 ÷ _____ = 9	360 ÷ 90 = _____
d. _____ ÷ 8 = 6	480 ÷ _____ = 80
e. 36 ÷ _____ = 6	3,600 ÷ _____ = 6
f. 63 ÷ 7 = _____	6,300 ÷ 7 = _____

SRB 109–110