

Grade 5 Unit 3 Module 1

Practice Pages for Math at Home

The Bridges Second Edition Module Packets, available from the Home Learning Resources page of the Bridges Educator Site, are designed to provide a review of math topics that were covered in class prior to school closures. They are meant for teachers

to send home, so students can continue to engage with key grade-level skills. The material in these packets includes exercises that can be completed by students at home with their families.

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Fraction Problems

1 Solve the following.

a $\frac{2}{5}$ of 60 =

b $\frac{2}{3}$ of 60 =

c $\frac{3}{4}$ of 60 =

2 Find the sum.

a $\frac{3}{4} + \frac{2}{3} =$

b $\frac{5}{6} + \frac{7}{9} =$

c $\frac{2}{7} + \frac{1}{4} =$

3 Find the difference.

a $\frac{1}{2} - \frac{2}{6} =$

b $\frac{5}{9} - \frac{1}{7} =$

c $\frac{8}{14} - \frac{2}{5} =$

4 Randy jogged in a park by his neighborhood every day after work. On Monday, he jogged $3\frac{2}{9}$ miles, and on Tuesday he jogged $3\frac{3}{8}$ miles.

a On which day did Randy jog farther? _____

b How much farther? Show your work.

c How far did Randy jog on the days combined? Show your work.

5 Carrie bought 3 watermelons for a school picnic. She used $\frac{7}{8}$ of a watermelon for one class and $1\frac{1}{5}$ watermelons for another class. How much watermelon does Carrie have left for the last class? Show your work.



Fraction & Decimal Equivalents

- 1 Match each fraction on the left with its decimal equivalent on the right. (Hint: Think about money. Remember that a penny is $\frac{1}{100}$ of a dollar and a dime is $\frac{1}{10}$ of a dollar.)

Fractions
$\frac{4}{10}$
$\frac{33}{100}$
$\frac{1}{2}$
$\frac{9}{10}$
$\frac{1}{4}$
$\frac{65}{100}$
$\frac{1}{1}$
$\frac{12}{100}$
$\frac{3}{4}$
$\frac{4}{100}$

Decimals
0.04
0.25
1.00
0.75
0.5
0.12
0.4
0.9
0.65
0.33

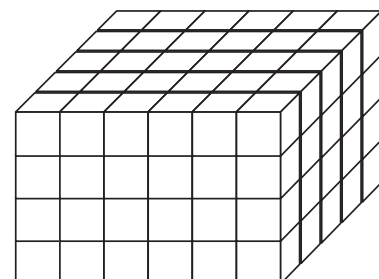
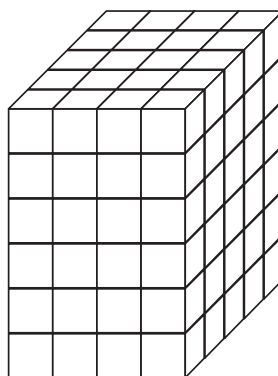
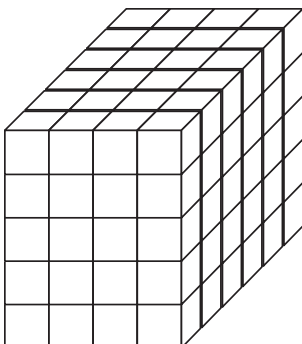
- 2 Susan said, “I multiplied 100 by 47, and then I removed one group of 47.” Write an expression to represent how Susan solved 99×47 . Then evaluate the expression.

- 3 Match each expression with the correct rectangular prism below. The numbers in parentheses represent the dimensions of the prism’s base.

a $(4 \times 6) \times 5$

b $(4 \times 5) \times 6$

c $(6 \times 5) \times 4$



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Adding & Subtracting Decimals

The Ramirez kids earn money each week for the chores they complete around the house. They made a bar graph showing how much they each earned in the first two weeks of the year. Use the graph to answer the questions below. Show all your work.

1 Look at the information for Sarah’s earnings.

- a** How much did Sarah earn in Week 1?
- b** How much did Sarah earn in Week 2?
- c** How much more did Sarah earn in Week 2 than in Week 1?

2 How much more did Johnny earn in Week 2 than in Week 1?

3 How much more did Richard earn in Week 2 than in Week 1?

4 How much more did Mr. and Mrs. Ramirez pay their children in Week 2 than in Week 1?





What's the Share?

Write and solve an equation to represent each of the problems below.

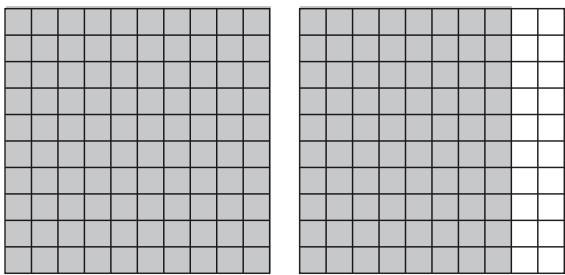
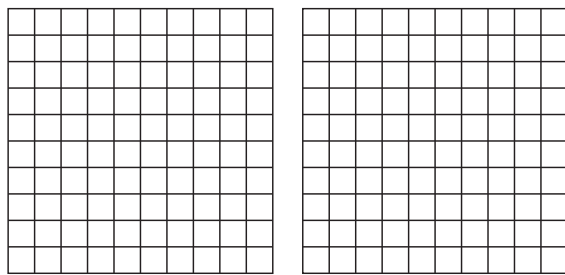
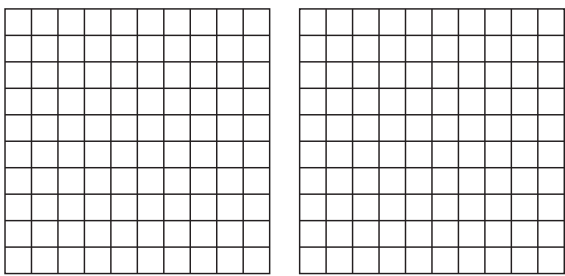
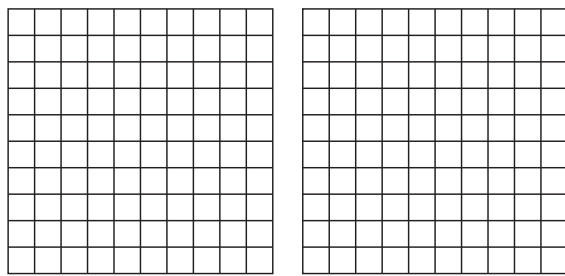
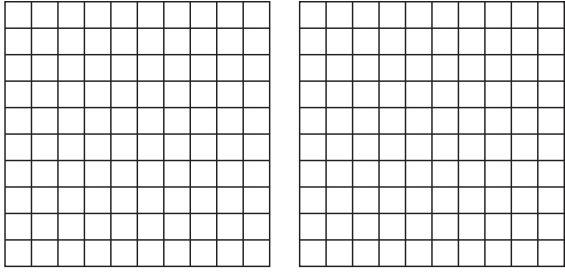
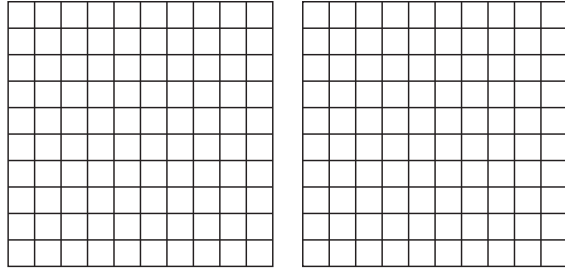
- 1 Ten friends went out for a special dinner. If each person paid \$24, what was the total cost of the dinner?
- 2 After dinner, the friends went out for ice cream. If each of the 10 friends paid \$2.40, what was the total cost of the ice cream?
- 3 Another group of 10 friends bought tickets to a concert, but it was canceled before they could attend. If each of the 10 friends received a refund of \$26 for the cost of the tickets, what was the total refund amount?
- 4 The group also received a refund for parking. If each of the ten friends received a \$2.60 refund for parking, what was the total parking refund?
- 5 Jenny had a box with the dimensions $(5 \times 7) \times 2$ and it was filled with baseballs. Each ball took up a $1 \times 1 \times 1$ space. How many baseballs were in Jenny's box?
- 6 Richard also had a box full of baseballs. The dimensions of his box were $4 \times (4 \times 5)$. Each ball took up a $1 \times 1 \times 1$ space. How many baseballs were in Richard's box?

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 **More Decimal Color & Order**

1 In each box below, color in the grids to show the number. Then write the number the way you'd read it over the phone to someone. The first one is done for you.

<p>ex</p> <div style="display: flex; justify-content: space-around;">  </div> <p>1.8 one and eight tenths</p>	<p>a</p> <div style="display: flex; justify-content: space-around;">  </div> <p>1.08</p>
<p>b</p> <div style="display: flex; justify-content: space-around;">  </div> <p>1.81</p>	<p>c</p> <div style="display: flex; justify-content: space-around;">  </div> <p>0.18</p>
<p>d</p> <div style="display: flex; justify-content: space-around;">  </div> <p>0.81</p>	<p>e</p> <div style="display: flex; justify-content: space-around;">  </div> <p>1.18</p>

2 List the numbers from the boxes above, including the example, on these lines. Write them in order from least to greatest.

_____ < _____ < _____ < _____ < _____ < _____



Finding Equivalent Expressions page 1 of 2

- 1** Match each fraction expression on the top with an equivalent decimal expression on the bottom.

Fraction Expressions	$\frac{4}{10} + \frac{20}{100}$	$\frac{60}{100} - \frac{1}{10}$	$\frac{4}{100} + \frac{3}{10}$	$\frac{14}{10} + \frac{75}{100}$	$\frac{15}{100} - \frac{1}{10}$	$\frac{14}{100} + \frac{12}{100}$
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Decimal Expressions	$0.04 + 0.3$	$1.4 + 0.75$	$0.14 + 0.12$	$0.4 + 0.20$	$0.60 - 0.1$	$0.15 - 0.1$
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- 2** Evaluate each expression. Represent your answer as both a fraction and a decimal.

a $0.60 - 0.25$

b $0.70 - 0.55$

c $0.2 + 0.05$

d $\frac{40}{100} - \frac{1}{10}$

e $\frac{4}{10} + \frac{60}{100}$

f $\frac{9}{10} + \frac{30}{100}$

- 3** Students at Jonah's school can walk or run laps at recess. At the end of each month, the class that has covered the most distance is recognized by the parent group.

a Jonah and Hayley walked $4\frac{1}{3}$ laps around the track yesterday and $3\frac{1}{2}$ laps today. How many laps did they walk together in the last two days? Show your work.

b Jonah ran $1\frac{3}{4}$ laps on Monday, $2\frac{3}{10}$ laps on Tuesday, and $6\frac{1}{5}$ laps on Wednesday. How much farther did he run on Wednesday than on the other two days combined? Show your work.

(continued on next page)

Finding Equivalent Expressions page 2 of 2

- 4** Jonah and Hayley made brownies to bring as a class treat. Some were plain and some had sprinkles. The class ate $\frac{3}{4}$ of one pan and $\frac{1}{6}$ of another pan of the plain brownies. They ate $\frac{5}{6}$ of one pan and $\frac{1}{10}$ of another pan of brownies with sprinkles.
- a** If the brownie pans were the same size, did the class eat more plain brownies or more brownies with sprinkles?
- b** How much more? Show your work.
- 5** **CHALLENGE** A coach took his team out for pizza after their last game. There were 14 players, so they had to sit in smaller groups at different tables. Six players sat at one table and got 4 small pizzas to share equally. The other 8 players sat at a different table and got 6 small pizzas to share equally. Afterwards, one of the players said it wasn't fair because some kids got more pizza than others. Do you agree? Use numbers, words, or labeled sketches to explain your answer.



Candy Sales Graph & More page 1 of 2

The organizers of a concession stand were thinking about making changes to the types of candy they sold. They made a bar graph to show the profits earned at the first two games of the season for each type of candy. Use the graph to answer the questions below. Show your work.

1 Look at the information for bubble gum.

- a** What was the profit for bubble gum during Game 1?
- b** What was the profit for bubble gum during Game 2?
- c** How much more profit was made on bubble gum during Game 2 than Game 1?

2 How much more profit was made on hard candy during Game 2 than Game 1?

3 How much more profit was made on sour strings during Game 2 than Game 1?

4 How much greater was the profit from sales of all three candies during Game 2 than during Game 1?



(continued on next page)

Candy Sales Graph & More page 2 of 2

5 Evaluate (solve) the following:

a $(12 \times 5) \times 2$

b $10 \times (24 \div 4)$

c $(150 \div 10) + (5 \times 5)$

6 Trina said $\$1.05 + \$2.25 = \$3.75$ because a dollar and 2 quarters plus 2 dollars and a quarter equals 3 dollars and 3 quarters. Do you agree with her statement? Explain.

7 Evaluate (solve) the following:

a $1.37 + 8.26$

b $5.01 + 5.10$

8 **CHALLENGE** A box holds 540 balls. Each layer has 18 balls. How many layers does the box have?

NAME _____

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Fraction Problems

1 Solve the following.

a $\frac{2}{5}$ of 60 = **24**

b $\frac{2}{3}$ of 60 = **40**

c $\frac{3}{4}$ of 60 = **45**

2 Find the sum.

a $\frac{3}{4} + \frac{2}{3} = 1\frac{5}{12}$

b $\frac{5}{6} + \frac{7}{9} = 1\frac{11}{18}$

c $\frac{2}{7} + \frac{1}{4} = 15/28$

3 Find the difference.

a $\frac{1}{2} - \frac{2}{6} = 1/6$

b $\frac{5}{9} - \frac{1}{7} = 26/63$

c $\frac{8}{14} - \frac{2}{5} = 6/35$

4 Randy jogged in a park by his neighborhood every day after work. On Monday, he jogged $3\frac{2}{9}$ miles, and on Tuesday he jogged $3\frac{3}{8}$ miles.

a On which day did Randy jog farther? Tuesday

b How much farther? Show your work.

$1\frac{1}{72}$ of a mile farther; work will vary.

c How far did Randy jog on the days combined? Show your work.

$6\frac{43}{72}$ miles; work will vary.

5 Carrie bought 3 watermelons for a school picnic. She used $\frac{7}{8}$ of a watermelon for one class and $1\frac{1}{5}$ watermelons for another class. How much watermelon does Carrie have left for the last class? Show your work.

$37/40$ of a watermelon; work will vary.

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Fraction & Decimal Equivalents

- 1 Match each fraction on the left with its decimal equivalent on the right. (Hint: Think about money. Remember that a penny is $\frac{1}{100}$ of a dollar and a dime is $\frac{1}{10}$ of a dollar.)

Fractions	
$\frac{4}{10}$	●
$\frac{33}{100}$	●
$\frac{1}{2}$	●
$\frac{9}{10}$	●
$\frac{1}{4}$	●
$\frac{65}{100}$	●
$\frac{1}{1}$	●
$\frac{12}{100}$	●
$\frac{3}{4}$	●
$\frac{4}{100}$	●

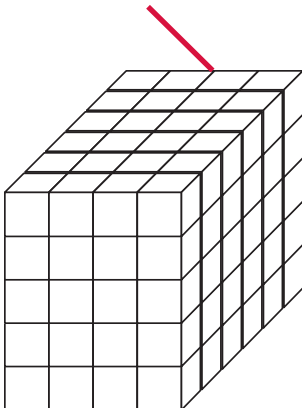
Decimals	
0.04	●
0.25	●
1.00	●
0.75	●
0.5	●
0.12	●
0.4	●
0.9	●
0.65	●
0.33	●

- 2 Susan said, “I multiplied 100 by 47, and then I removed one group of 47.” Write an expression to represent how Susan solved 99×47 . Then evaluate the expression.

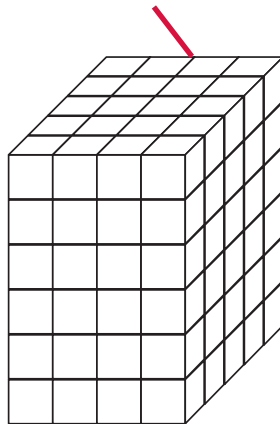
$$(100 \times 47) - (1 \times 47)$$

- 3 Match each expression with the correct rectangular prism below. The numbers in parentheses represent the dimensions of the prism’s base.

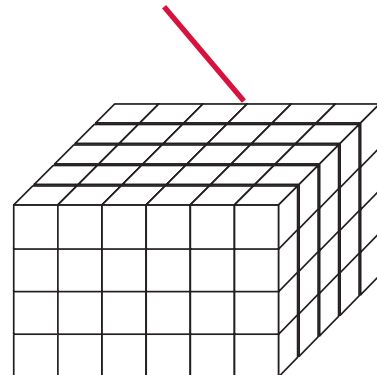
a $(4 \times 6) \times 5$



b $(4 \times 5) \times 6$



c $(6 \times 5) \times 4$



NAME _____

DATE _____



Adding & Subtracting Decimals

The Ramirez kids earn money each week for the chores they complete around the house. They made a bar graph showing how much they each earned in the first two weeks of the year. Use the graph to answer the questions below. Show all your work.

1 Look at the information for Sarah's earnings.

a How much did Sarah earn in Week 1?

\$1.20

b How much did Sarah earn in Week 2?

\$3.60

c How much more did Sarah earn in Week 2 than in Week 1?

\$2.40; work will vary.

2 How much more did Johnny earn in Week 2 than in Week 1?

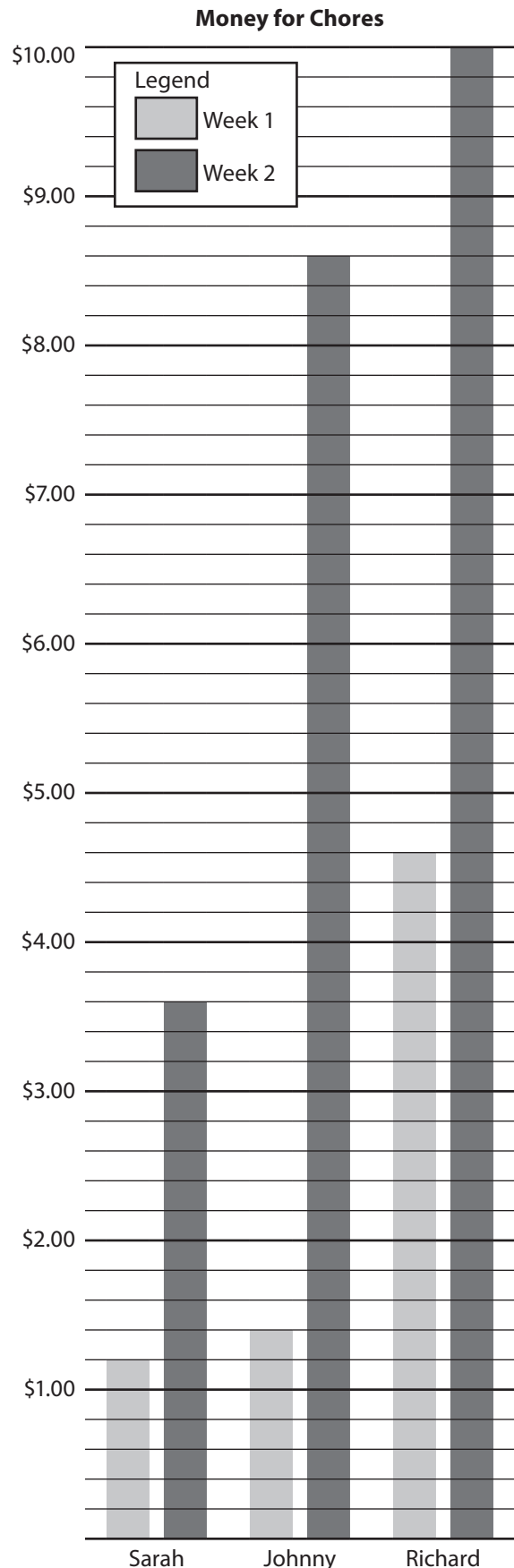
\$7.20; work will vary.

3 How much more did Richard earn in Week 2 than in Week 1?

\$5.40; work will vary.

4 How much more did Mr. and Mrs. Ramirez pay their children in Week 2 than in Week 1?

\$15.00 more; work will vary.



NAME _____

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What's the Share?

Write and solve an equation to represent each of the problems below.

Equations will vary. Examples shown.

- 1** Ten friends went out for a special dinner. If each person paid \$24, what was the total cost of the dinner?

\$240 **$24 \times 10 = 240$**

- 2** After dinner, the friends went out for ice cream. If each of the 10 friends paid \$2.40, what was the total cost of the ice cream?

\$24.00 **$2.40 \times 10 = 24.0$**

- 3** Another group of 10 friends bought tickets to a concert, but it was canceled before they could attend. If each of the 10 friends received a refund of \$26 for the cost of the tickets, what was the total refund amount?

\$260 **$26 \times 10 = 260$**

- 4** The group also received a refund for parking. If each of the ten friends received a \$2.60 refund for parking, what was the total parking refund?

\$26.00 **$2.60 \times 10 = 26.0$**

- 5** Jenny had a box with the dimensions $(5 \times 7) \times 2$ and it was filled with baseballs. Each ball took up a $1 \times 1 \times 1$ space. How many baseballs were in Jenny's box?

70 baseballs **$(5 \times 7) \times 2 = 70$**

- 6** Richard also had a box full of baseballs. The dimensions of his box were $4 \times (4 \times 5)$. Each ball took up a $1 \times 1 \times 1$ space. How many baseballs were in Richard's box?

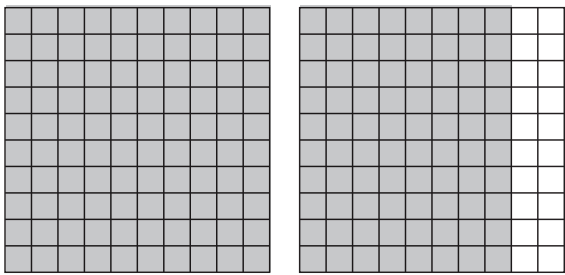
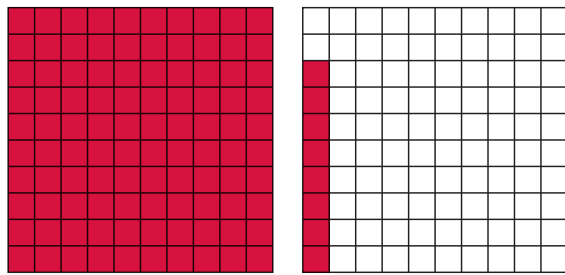
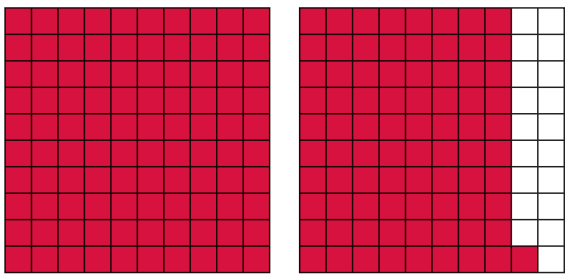
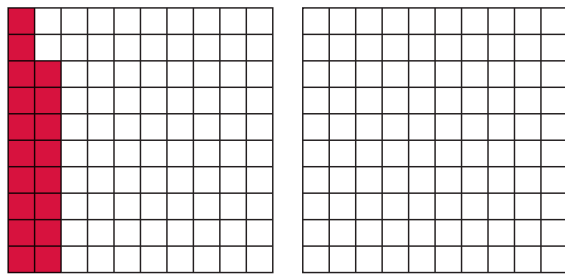
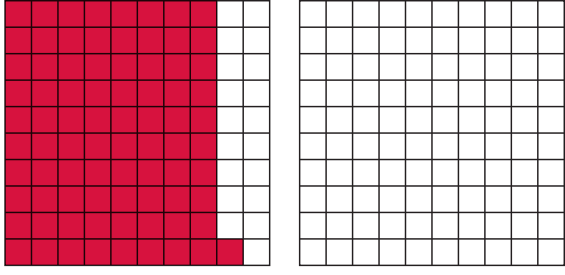
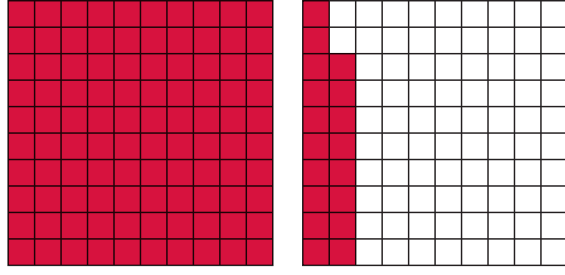
80 baseballs **$4 \times (4 \times 5) = 80$**

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 **More Decimal Color & Order**

1 In each box below, color in the grids to show the number. Then write the number the way you'd read it over the phone to someone. The first one is done for you.

<p>ex</p>  <p>1.8 one and eight tenths</p>	<p>a</p>  <p>1.08 one and eight hundredths</p>
<p>b</p>  <p>1.81 one and eighty-one hundredths</p>	<p>c</p>  <p>0.18 zero and eighteen hundredths</p>
<p>d</p>  <p>0.81 eighty-one hundredths</p>	<p>e</p>  <p>1.18 one and eighteen hundredths</p>

2 List the numbers from the boxes above, including the example, on these lines. Write them in order from least to greatest.

0.18 < .81 < 1.08 < 1.18 < 1.8 < 1.81

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**Finding Equivalent Expressions** page 1 of 2

- 1 Match each fraction expression on the top with an equivalent decimal expression on the bottom.

Fraction Expressions	$\frac{4}{10} + \frac{20}{100}$	$\frac{60}{100} - \frac{1}{10}$	$\frac{4}{100} + \frac{3}{10}$	$\frac{14}{10} + \frac{75}{100}$	$\frac{15}{100} - \frac{1}{10}$	$\frac{14}{100} + \frac{12}{100}$
Decimal Expressions	$0.04 + 0.3$	$1.4 + 0.75$	$0.14 + 0.12$	$0.4 + 0.20$	$0.60 - 0.1$	$0.15 - 0.1$

- 2 Evaluate each expression. Represent your answer as both a fraction and a decimal.

a $0.60 - 0.25 = \mathbf{0.35}$
 $\frac{35}{100} = \mathbf{\frac{7}{20}}$

b $0.70 - 0.55 = \mathbf{0.15}$
 $\frac{15}{100} = \mathbf{\frac{3}{20}}$

c $0.2 + 0.05 = \mathbf{0.25}$
 $\frac{25}{100} = \mathbf{\frac{1}{4}}$

d $\frac{40}{100} - \frac{1}{10} = \mathbf{\frac{30}{100}}$
 $= \mathbf{0.3}$

e $\frac{4}{10} + \frac{60}{100} = \mathbf{\frac{100}{100}}$
 $= \mathbf{1}$

f $\frac{9}{10} + \frac{30}{100} = \mathbf{\frac{120}{100}}$
 $= \mathbf{1 \frac{1}{5}}$

- 3 Students at Jonah's school can walk or run laps at recess. At the end of each month, the class that has covered the most distance is recognized by the parent group.

- a** Jonah and Hayley walked $4\frac{1}{3}$ laps around the track yesterday and $3\frac{1}{2}$ laps today. How many laps did they walk together in the last two days? Show your work.

7 $\frac{5}{6}$ laps

Work will vary.

- b** Jonah ran $1\frac{3}{4}$ laps on Monday, $2\frac{3}{10}$ laps on Tuesday, and $6\frac{1}{5}$ laps on Wednesday. How much farther did he run on Wednesday than on the other two days combined? Show your work.

He ran $2\frac{3}{20}$ laps more on Wednesday than on Monday and Tuesday combined. Work will vary.

(continued on next page)

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Finding Equivalent Expressions page 2 of 2

- 4** Jonah and Hayley made brownies to bring as a class treat. Some were plain and some had sprinkles. The class ate $\frac{3}{4}$ of one pan and $\frac{1}{6}$ of another pan of the plain brownies. They ate $\frac{5}{6}$ of one pan and $\frac{1}{10}$ of another pan of brownies with sprinkles.
- a** If the brownie pans were the same size, did the class eat more plain brownies or more brownies with sprinkles?

**They ate $1\frac{1}{12}$ pan of plain and $1\frac{4}{15}$ pan of sprinkles.
They ate more brownies with sprinkles because $1\frac{4}{15} > 1\frac{1}{12}$.**

- b** How much more? Show your work.
- $\frac{1}{60}$ pan more. Work will vary. Example:**
 $1\frac{4}{15} - 1\frac{1}{12} = \frac{56}{60} - \frac{55}{60} = \frac{1}{60}$

- 5** **CHALLENGE** A coach took his team out for pizza after their last game. There were 14 players, so they had to sit in smaller groups at different tables. Six players sat at one table and got 4 small pizzas to share equally. The other 8 players sat at a different table and got 6 small pizzas to share equally. Afterwards, one of the players said it wasn't fair because some kids got more pizza than others. Do you agree? Use numbers, words, or labeled sketches to explain your answer.

Agree (assuming that students consider unequal amounts of pizza to be unfair) – some players got more pizza than others. Work and explanations will vary. Example:
At the table with 6 players, each player got $\frac{4}{6}$ ($\frac{2}{3}$) of a pizza. At the table with 8 players, each player got $\frac{6}{8}$ ($\frac{3}{4}$) of a pizza. $\frac{3}{4} > \frac{2}{3}$, so the players in the group of 6 got more pizza than the players in the group of 8.

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Candy Sales Graph & More page 1 of 2

The organizers of a concession stand were thinking about making changes to the types of candy they sold. They made a bar graph to show the profits earned at the first two games of the season for each type of candy. Use the graph to answer the questions below. Show your work.

1 Look at the information for bubble gum.

a What was the profit for bubble gum during Game 1?

b **\$1.75** What was the profit for bubble gum during Game 2?

c **\$3.50** How much more profit was made on bubble gum during Game 2 than Game 1?

\$1.75

2 How much more profit was made on hard candy during Game 2 than Game 1?

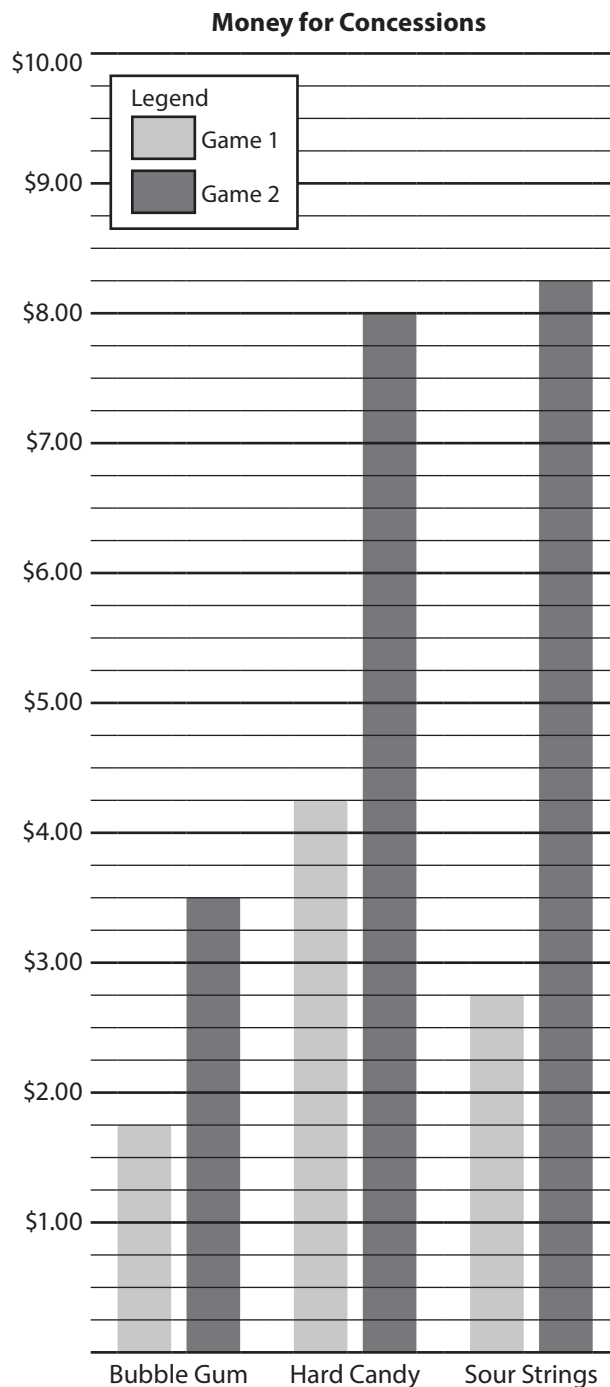
\$3.75

3 How much more profit was made on sour strings during Game 2 than Game 1?

\$5.50

4 How much greater was the profit from sales of all three candies during Game 2 than during Game 1?

\$11.00



(continued on next page)

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Candy Sales Graph & More page 2 of 2**5** Evaluate (solve) the following:

a $(12 \times 5) \times 2 = 120$

b $10 \times (24 \div 4) = 60$

c $(150 \div 10) + (5 \times 5) = 40$

6 Trina said $\$1.05 + \$2.25 = \$3.75$ because a dollar and 2 quarters plus 2 dollars and a quarter equals 3 dollars and 3 quarters. Do you agree with her statement? Explain.

**No, disagree (Trina is incorrect). Explanations will vary.
Example: $\$1.05 + \$2.25 = \$3.30$. $\$1.05$ is equal to a dollar and a nickel, not a dollar and two quarters.**

7 Evaluate (solve) the following:

a $1.37 + 8.26 = 9.63$

b $5.01 + 5.10 = 10.11$

8 **CHALLENGE** A box holds 540 balls. Each layer has 18 balls. How many layers does the box have?

30 layers