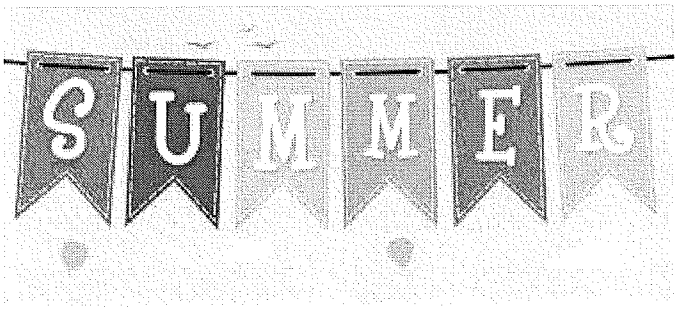
Fairfield Public Schools



Math Packet

For

Students Entering Fifth Grade

NAME _____ DATE _____

Multi-Digit Addition Review

1 Solve the problems below. Show all your work.

120 + 207	459 + 320	533 + 429	332 + 845
457 + 372	538 + 975	347 576 + 423	1,438 2,754 + 3,626

2 Rewrite these problems in vertical form. Then solve them. Show all your work.

example 583 + 645	**a** 276 + 986	**b** 362 + 1,534
1 583 + 645 1,228		

CHALLENGE

3 Use two numbers from the box to complete each addition problem below. You will use some numbers more than once.

97	204	297	405	498	607

+ ☐ 3 0 1	+ ☐ 3 9 4	+ ☐ 1, 0 1 2	+ ☐ 1, 1 0 5	+ ☐ 7 0 2

NAME _____ DATE _____

Multi-Digit Subtraction Review

1 Solve the problems below. Show all your work.

649 – 514	2,964 – 723	482 – 391	3,851 – 1,470
4,582 – 950	6,739 – 547	385 – 197	7,846 – 4,928

2 Rewrite these problems in vertical form. Solve them and then add the numbers to check your answer. Show all your work.

example 906 – 458	**a** 607 – 569	**b** 8,046 – 753
8 9 ~~9~~06 – 458 448 11 458 + 448 906		

CHALLENGE

3 Complete these problems. There is more than one correct solution to the first two problems.

a

$$\begin{array}{r} \square\,0\,1 \\ -\ \square\,\square \\ \hline \square\,6\,7 \end{array}$$

b

$$\begin{array}{r} \square\,7\,\square \\ -\square\,\square\,2 \\ \hline 3\,\square\,\square \end{array}$$

c

$$\begin{array}{r} 8\,6\,\square \\ -\square\,4\,1 \\ \hline 5\,1\,\square \end{array}$$

NAME _____ **DATE** _____

The Big Race & the Walk-a-Thon

1 Hannah is running in big race that is 27 kilometers long. If she runs 9 kilometers per hour, how long will it take her to run the race? Show all your work.

2 Peter is in a walk-a-thon. He walks about 5 kilometers per hour. If he walks for 6 hours, about how far will he walk? Show all your work.

3 There are 32 students in Ms. Lopez's fourth grade class. If she made 2 equal groups of students, there would be 16 students in each group. What are the other ways she could divide the students into equal groups? Show all your work.

NAME _____ **DATE** _____

Area & Perimeter Story Problems

You can make sketches to help solve the problems below. Remember to include the units of measurement in your answers. Show all of your work.

1a The classroom rug is 9 feet long and 8 feet wide. What is the total area of the rug?

b What is the perimeter of the rug?

2a Chrissy is going to make a big painting on a piece of wood that is 4 feet wide and 7 feet long. What is the total area of the piece of wood?

b What is the perimeter of the piece of wood?

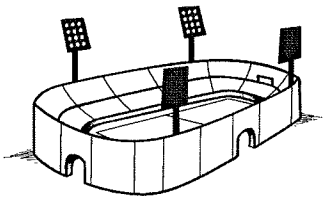
3 The school playground measures 465 feet by 285 feet. What is the perimeter of the playground?

NAME _____ DATE _____

Money & Stadium Seats

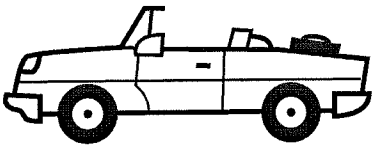
1 Mr. Parker was buying presents for his sons. He spent one hundred thirty-six dollars on a remote controlled car for George. He spent fifty-nine dollars on a video game and twelve dollars on a book for Carl. How much more money did Mr. Parker spend on George's present than on Carl's? Show all your work.

2 The stadium can hold twenty thousand people. If seventeen thousand, four hundred ninety-six people came to a game at the stadium, how many empty seats were there? Show all your work.



CHALLENGE

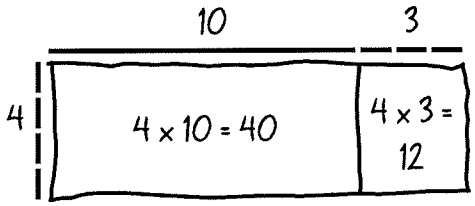
3 Jasmine wants to buy a car that costs six thousand, five hundred dollars. She has four thousand, six hundred sixty-five dollars in the bank. Her grandmother offered to give her five hundred dollars to help pay for the car. How much more money does Jasmine need to buy the car? Show your work.



NAME _____ **DATE** _____

Fill the Frames

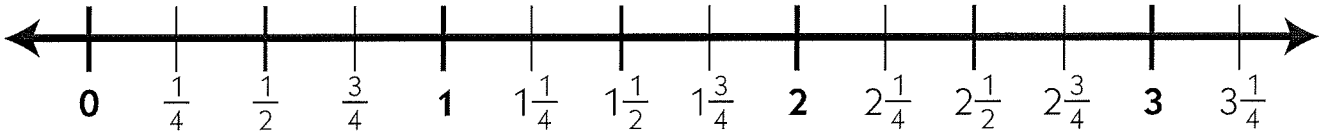
Label each array frame below. Then fill it in with labeled rectangles. Write an addition equation to show how you got the total. Then write a multiplication equation to match the array.

Labeled Array Frame & Rectangle	Addition Equation	Multiplication Equation
example 	40 + 12 = 52	4 x 13 = 52
1		
2		
3		

NAME _____ DATE _____

Fractions & Mixed Numbers on a Number Line

1 Use the number line to answer the questions below.



example a What improper fraction is equal to $2\frac{1}{4}$? In other words, how many fourths are in two and one-fourth?	$\frac{9}{4}$
example b What number is halfway between 2 and 3?	$2\frac{1}{2}$
a What improper fraction is equal to $1\frac{1}{2}$? In other words, how many halves are in one and one-half?	
b What mixed number is equal to $\frac{6}{4}$?	
c Which is greater, $\frac{5}{4}$ or $1\frac{1}{2}$?	
d What mixed number is equal to $\frac{13}{4}$?	
e What improper fraction is equal to $2\frac{1}{2}$? In other words, how many halves are in two and one-half?	
f Which is greater, $1\frac{3}{4}$ or $\frac{8}{4}$?	

CHALLENGE

2 What number is halfway between 0 and 1?

3 What number is halfway between 0 and 3?

4 What number is halfway between 0 and 17?

NAME _____ **DATE** _____

Fraction Story Problems

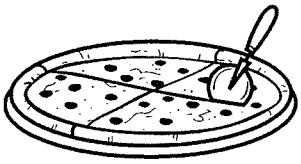
Draw pictures to help answer the questions below. Circle your answer to each question.

1 Jim had a piece of string that was three-fourths of a foot long. Damien had a piece of string that was half a foot long. Whose string was longer? How much longer was it? Use a labeled sketch, as well as numbers and/or words, to prove your answer.

2 Rosa and Jasmine were trying to run a kilometer (1 kilometer is equal to 1000 meters). Rosa made it halfway. Jasmine made it one-third of the way. Who ran farther? Use a labeled sketch, as well as numbers and/or words, to prove your answer.

CHALLENGE

3 Lisa and her brother Darius were eating small pizzas. Their mom cut each pizza into fourths. Lisa figured out that she ate one and a half little pizzas. Darius counted that he ate seven fourths. Who ate more pizza? How much more? Use a labeled sketch, numbers, and/or words to prove your answer.

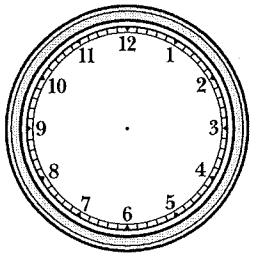
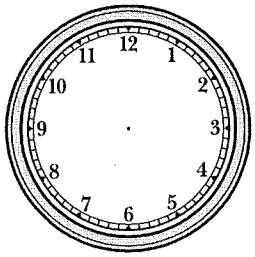


NAME _____ DATE _____

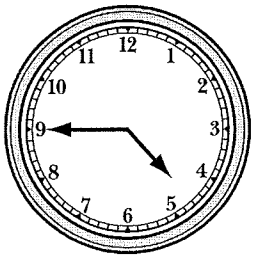
Time & Fractions

1 Use the clocks below to help answer the questions. Show all your work and circle your answers.

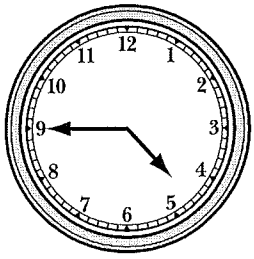
a Hiroko spent half an hour on her homework. Her sister Mai spent four-sixths of an hour on her homework. Who spent more time doing homework?

b The sisters started doing their homework at 4:45 in the afternoon. What time did Hiroko finish?

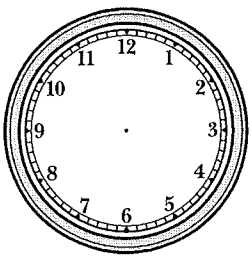
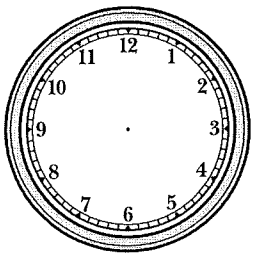
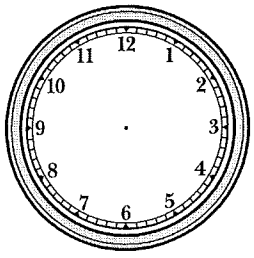
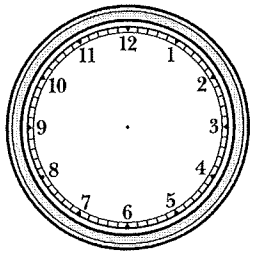


c What time did Mai finish?



CHALLENGE

2 It takes Ashley's family five-thirds of an hour to drive to her grandmother's house. It takes them eleven-sixths of an hour to drive to her aunt's house. Which drive takes more time for Ashley's family? How much more time? Show your work.

NAME _____ DATE _____

Division Tables & Equivalent Fractions

1 Complete the division tables below.

ex

÷	10	4	18	6	16	12	14	8
2	5	2	9	3	8	6	7	4

a

÷	8	32	12	16	36	28	24	20
4	2							

b

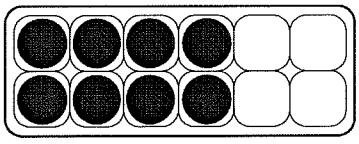
÷	16	48	72	56	64	32	40	24
8	2							

c

÷	14	63	42	35	56	49	28	21
7	2							

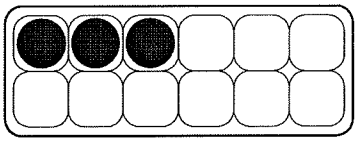
2 Write at least two fractions to show how much of each egg carton is filled.

example

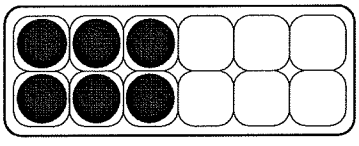


$\frac{8}{12}$ $\frac{4}{6}$ $\frac{2}{3}$

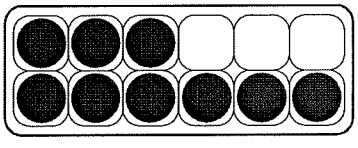
a



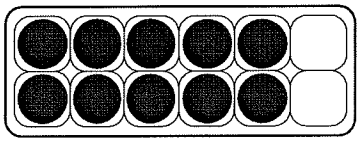
b



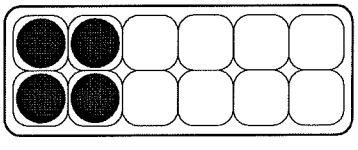
c



d



e



NAME _____ DATE _____

Multiplying by 10, 100 & 1,000

1 Multiply by 10, 100, and 1,000. Some of the problems below are already done for you as examples.

10 × 3 = 30	10 × 5 =	10 × 7 =	100 × 2 = 200	100 × 4 =	100 × 9 =
1,000 × 2 = 2,000	1,000 × 7 =	1,000 × 6 =	10 × 9 =	1,000 × 5 =	100 × 3 =

2 Fill in the missing numbers.

10 × 8 = ☐	10 × 4 = ☐	100 × 7 = ☐	100 × 5 = ☐
1,000 × 3 = ☐	1,000 × 5 = ☐	☐ × 9 = 9,000	100 × ☐ = 600
☐ × 100 = 500	☐ × 10 = 80	5 × ☐ = 500	7 × ☐ = 70

CHALLENGE

☐ × 3 = 3,000,000	☐ × 40 = 400	☐ × 60 = 6,000

NAME _____ DATE _____

Using Partial Products to Solve Multiplication Problems

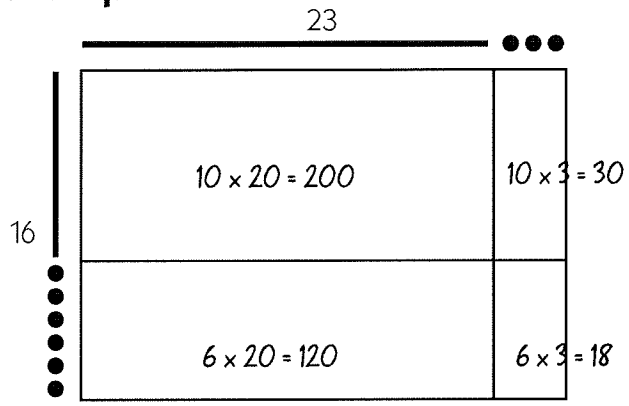
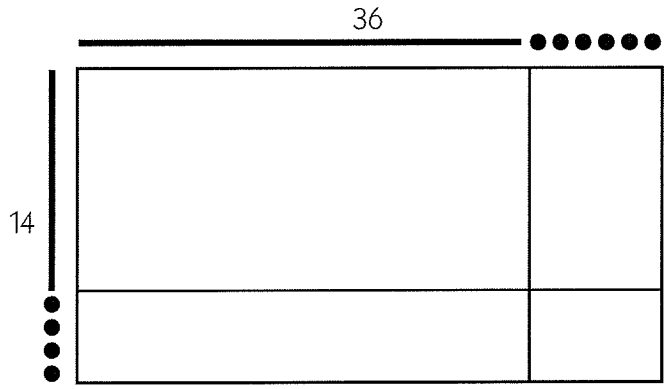
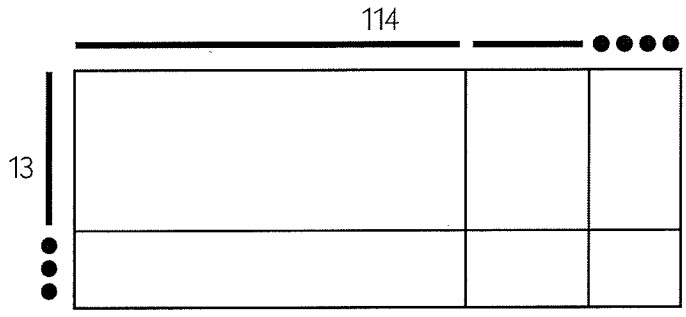
Use partial products to solve each multiplication problem below.

Fill in the array to show the partial products.	Use numbers to show your work.
example 23 6 20 × 6 = 120 3 × 6 = 18	23 × 6 6 × 20 = 120 6 × 3 = + 18 138
1 24 7	24 × 7
2 36 6	36 × 6
3 47 4	47 × 4

NAME _____ DATE _____

More Partial Products

Use partial products to solve each multiplication problem below.

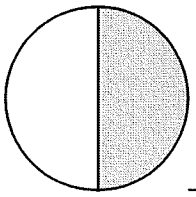
Fill in the array to show the partial products.	Use numbers to show your work.
example 	23 × 16 10 x 20 = 200 10 x 3 = 30 6 x 20 = 120 6 x 3 = + 18 368
1 	36 × 14
2 	114 × 13

NAME _____ DATE _____

More Fractions & Division

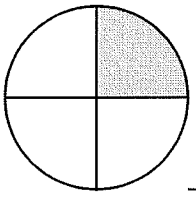
1 Write a fraction to show how much of each circle is filled in.

example



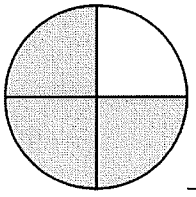
$\frac{1}{2}$

a



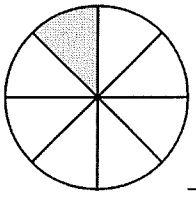
_____

b



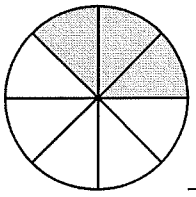
_____

c



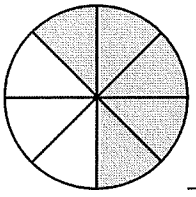
_____

d



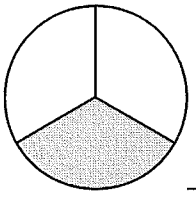
_____

e



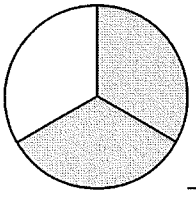
_____

f



_____

g



_____

2 Solve the following division problems. The answers can help you with problem 3.

24 ÷ 2 = _____ 24 ÷ 4 = _____ 24 ÷ 8 = _____ 24 ÷ 3 = _____

240 ÷ 2 = _____ 240 ÷ 4 = _____ 240 ÷ 8 = _____ 240 ÷ 3 = _____

3 You can use what you know about division to find different fractions of a number.

example Half of 24 is 12.

a One-third of 24 is _____.

b One-eighth of 24 is _____.

c One-fourth of 24 is _____.

d One-third of 240 is _____.

e Half of 240 is _____.

f One-eighth of 240 is _____.

g One-fourth of 240 is _____.

CHALLENGE

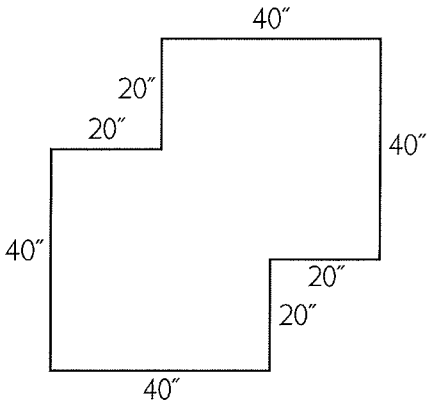
h Three-fourths of 24 is _____.

i Two-thirds of 240 is _____.

NAME _____ **DATE** _____

Area & Perimeter, Time & Money

1 Find the area and perimeter of this figure. Show all of your work.



Area _____

Perimeter _____

2a Simon earns $24 per hour. Raymond earns one-half that amount. Simon works 5 hours per day. If Raymond wants to earn the same amount of money as Simon, how many hours would he need to work each day? Show all your work.

b How much money does Simon make each day? Show all your work.

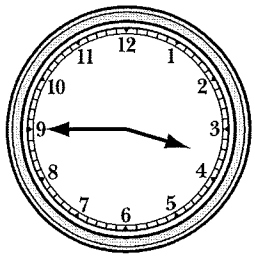
NAME _____ DATE _____

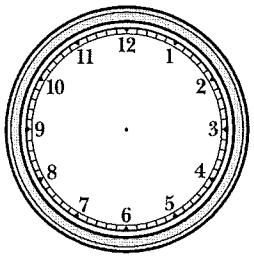
Division & Elapsed Time

1 Complete the following division facts.

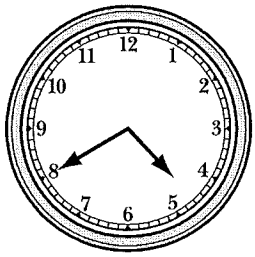
32 ÷ 8 = _____	21 ÷ 3 = _____	18 ÷ 2 = _____	16 ÷ 4 = _____
63 ÷ 7 = _____	40 ÷ 5 = _____	81 ÷ 9 = _____	24 ÷ 6 = _____
42 ÷ 6 = _____	48 ÷ 8 = _____	64 ÷ 8 = _____	36 ÷ 4 = _____

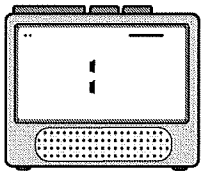
2 Show what time it will be an hour and a half from the time shown on the clock below.



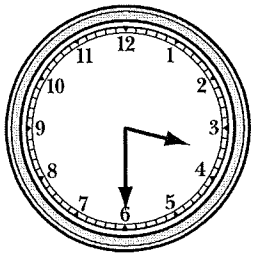


3 On the digital clock, show what time it was twenty-five minutes before the time shown on the clock below.

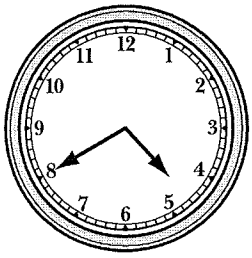




4 The clocks below show when Darren started and stopped practicing his violin yesterday. How long did he spend practicing his violin yesterday?

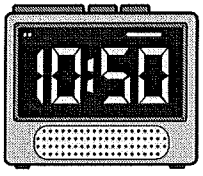


started

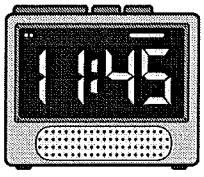


stopped

5 The clocks below show when the fourth graders' music class starts and ends. How long is their music class?



starts



ends

NAME _____ DATE _____

Multi-Digit Multiplication Practice

1 Solve these multiplication problems.

70	70	70	700	700
× 30	× 40	× 50	× 30	× 40

2 Solve these multiplication problems using the standard algorithm. Use the answers above to make sure your answers are reasonable.

example

$$\begin{array}{r} {\scriptstyle 2\,1} \\ 184 \\ \times\ 36 \\ \hline 1{,}104 \\ +\,5{,}520 \\ \hline 6{,}624 \end{array}$$

a

$$\begin{array}{r} 73 \\ \times\ 52 \\ \hline \end{array}$$

b

$$\begin{array}{r} 68 \\ \times\ 48 \\ \hline \end{array}$$

c

$$\begin{array}{r} 67 \\ \times\ 36 \\ \hline \end{array}$$

d

$$\begin{array}{r} 703 \\ \times\ 28 \\ \hline \end{array}$$

e

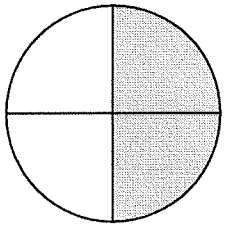
$$\begin{array}{r} 689 \\ \times\ 40 \\ \hline \end{array}$$

NAME _____ DATE _____

Fractions & Mixed Numbers

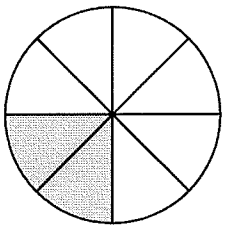
1 The circles below are divided into equal parts. Write two fractions to show what part of each circle is filled in.

example

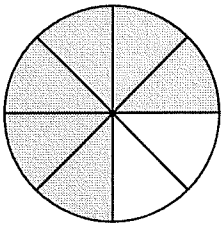


$\frac{1}{2}$ $\frac{2}{4}$

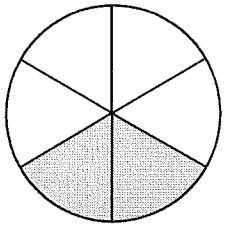
a



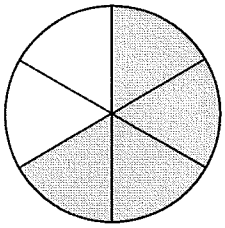
b



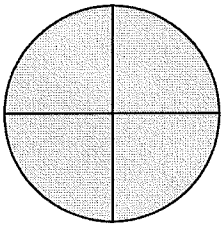
c



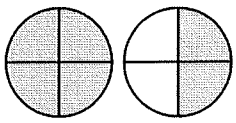
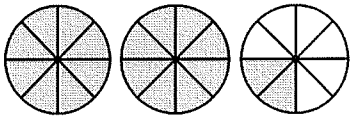
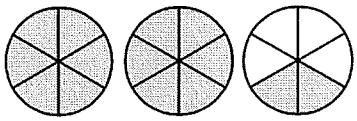
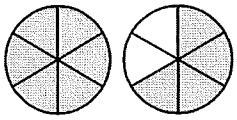
d



e



2 The circles below are divided into equal parts. Write a fraction and a mixed number to show how many circles are filled in.

	Fraction	Mixed Number		Fraction	Mixed Number
example 	$\frac{3}{2}$	$1\frac{1}{2}$	**a** 		
b 			**c** 		

3 Fill in the missing fractions or mixed numbers.

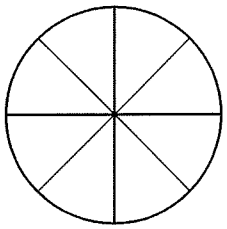
CHALLENGE

Fractions	**ex** $\frac{5}{2}$	**a** $\frac{9}{2}$	**b** $\frac{9}{4}$	**c** $\frac{14}{4}$	**d**	**e**	**f** $\frac{62}{3}$	**g**
Mixed Number	$2\frac{1}{2}$				$3\frac{1}{2}$	$2\frac{3}{4}$		$30\frac{1}{3}$

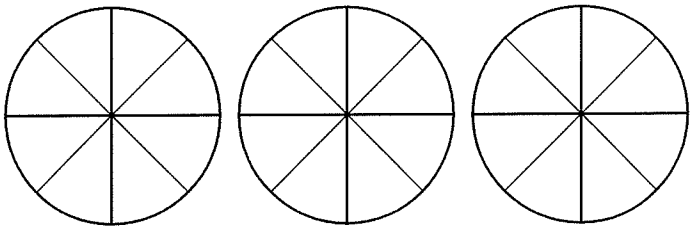
NAME _____ **DATE** _____

Pizza Problems

1 The pizzas at Little Tom's are cut into 8 pieces. Lucy ate $\frac{1}{2}$ of a pizza and Alex ate $\frac{3}{8}$ of a pizza. Who ate more pizza? How much more? Use pictures, numbers, and/or words to explain how you know.



2 On Friday night, the Suarez family ate $2\frac{3}{4}$ pizzas. Their neighbors, the Johnson family, ate $\frac{17}{8}$ of a pizza. Which family ate more pizza? How much more? Use pictures, numbers, and/or words to explain how you know.

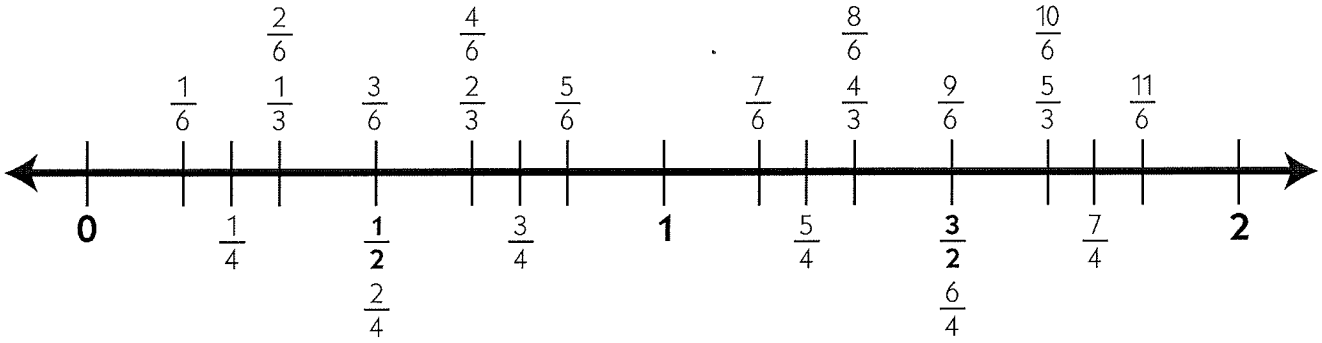


CHALLENGE

3 Which is greater, $\frac{82}{8}$ or $\frac{37}{4}$? Explain how you know. Hint: *Think about how many eighths and how many fourths are in one whole.*

NAME _____ **DATE** _____

Using Fractions on a Number Line to Solve Problems



1 Use the number line above to help answer these questions.

a Celia ran $\frac{5}{6}$ of a mile. Jade ran $1\frac{1}{4}$ mile. Who ran farther?

b Lester has a piece of rope that is $\frac{9}{6}$ of a foot long. Dario has a piece of rope that is $1\frac{1}{3}$ of a foot long. Whose piece of rope is longer?

c Table A is $1\frac{2}{3}$ of a yard long. Table B is $\frac{11}{6}$ of a yard long. Which table is longer?

2 Put the following fractions in order from smallest to greatest. Hint: *Think about landmarks. Which fractions are less than one-half? Which fractions are close to 1?*

$\frac{1}{4}$	$\frac{7}{6}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{12}$	$\frac{7}{8}$

_____ _____ _____ _____ _____ _____

Least Greatest

3 Think about landmarks like one-half and one to compare the fractions below. Use a greater than (>) or less than (<) sign to compare them.

ex $\frac{3}{4} > \frac{1}{3}$	**a** $\frac{3}{6}$ $\frac{3}{4}$	**b** $\frac{5}{6}$ $\frac{3}{4}$	**c** $\frac{5}{6}$ $\frac{2}{3}$
d $\frac{5}{4}$ $\frac{5}{6}$	**e** $\frac{5}{4}$ $\frac{4}{3}$	**f** $\frac{11}{6}$ $\frac{5}{3}$	**g** $\frac{10}{9}$ $\frac{101}{100}$

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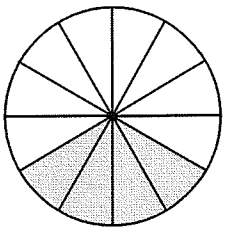
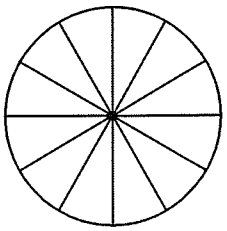
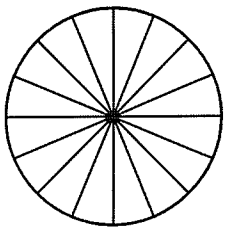
Simplifying Fractions

1 When you can divide the numerator and the denominator by the same number, you can simplify a fraction. If you divide the numerator and denominator by the greatest factor they have in common (the greatest common factor), you can show the fraction in its simplest form. Look carefully at the example below. Then fill in the rest of the table.

Fraction	Factors of the Numerator (top number)	Factors of the Denominator (bottom number)	Greatest Common Factor	Divide to Get the Simplest Form	Picture and Equation
ex $\frac{4}{12}$	1, 2, (4)	1, 2, 3, (4) 6, 12	4	$\frac{4 \div 4}{12 \div 4} = \frac{1}{3}$	 $\frac{4}{12} = \frac{1}{3}$
a $\frac{9}{12}$				$\frac{9 \div}{12 \div} =$	 $\frac{9}{12} =$
b $\frac{10}{16}$				$\frac{10 \div}{16 \div} =$	 $\frac{10}{16} =$

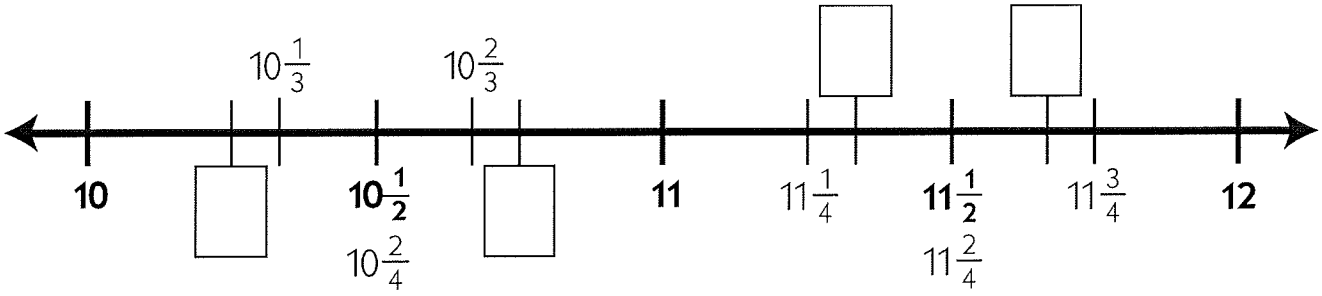
2 Use what you know about factors to write the fractions below in simplest form.

ex $\frac{5 \div 5}{15 \div 5} = \frac{1}{3}$	**a** $\frac{9 \div}{15 \div} =$	**b** $\frac{6 \div}{16 \div} =$	**c** $\frac{8 \div}{12 \div} =$

NAME _____ DATE _____

Fraction Practice

1 Fill in the four missing numbers on the fraction number line below.



2 Use the number line above to help answer these questions.

a Alicia ran $10\frac{2}{3}$ miles. Did she run closer to 10 miles or 11 miles?

b Erica ran $11\frac{1}{4}$ miles. She said she ran about 12 miles. Was she accurate? Explain why or why not.

c Frank ran $10\frac{2}{3}$ miles. Cameron ran $10\frac{2}{4}$ miles. Who ran farther?

3 There are 4 fourths in 1 whole, so there are 40 fourths in 10 wholes. Therefore, we can say $\frac{4}{4} = 1$ and $\frac{40}{4} = 10$. Think about how many thirds and fourths are in a whole, and look at the number line above, to help fill in the blanks below.

$\frac{44}{4} =$ 11	$\frac{2}{2} =$ _____	$\frac{20}{2} =$ _____	$\frac{22}{2} =$ _____
$\frac{3}{3} =$ _____	$\frac{30}{3} =$ _____	$\frac{33}{3} =$ _____	$\frac{35}{3} =$ _____
$\frac{23}{2} =$ _____	$\frac{31}{3} =$ _____	$\frac{42}{4} =$ _____	$\frac{29}{3} =$ _____

4 Write the following fractions in simplest form.

ex $\frac{12 \div 3}{15 \div 3} = \frac{4}{5}$	**a** $\frac{6 \div}{21 \div} =$	**b** $\frac{8 \div}{36 \div} =$

NAME _____ DATE _____

Decimals & Fractions

1 Write the place value of the underlined digit in each number. The place values are spelled for you here:

hundreds	tens	ones	tenths	hundredths

example 2.0<u>3</u> hundredths

a 3.<u>1</u>7 _____

b 12<u>0</u>.4 _____

c <u>5</u>06.92 _____

d 54.2<u>9</u> _____

e 32.<u>7</u> _____

2 Write each decimal number.

ex a Twenty-three and two-tenths: 23.2

ex b One hundred thirty and five-hundredths: 130.05

a Six and seven-hundredths: _____

b Two-hundred sixty-five and eight-tenths: _____

3 Write each fraction or mixed number as a decimal number.

ex a $5\frac{3}{10}$ = 5.3	**ex b** $12\frac{4}{100}$ = 12.04	**ex c** $3\frac{17}{100}$ = 3.17
a $\frac{7}{10}$ =	**b** $3\frac{5}{100}$ =	**c** $\frac{4}{100}$ =
d $4\frac{38}{100}$ =	**e** $1\frac{9}{100}$ =	**f** $1\frac{9}{10}$ =

4 Use a greater than (>), less than (<), or equal sign to show the relationship between the decimal numbers below.

ex 1.09 < 1.9	**a** 1.12 1.2	**b** 3.5 3.48
c 23.81 23.85	**d** 4.50 4.5	**e** 3.06 3.65

NAME _____ DATE _____

Ordering Decimals & Fractions

1 Write the decimal number that is equal to each fraction below.

ex $\frac{25}{100}$ = *0.25*	**a** $\frac{5}{10}$ =	**b** $\frac{50}{100}$ =	**c** $\frac{75}{100}$ =
d $\frac{1}{4}$ =	**e** $\frac{1}{2}$ =	**f** $\frac{3}{4}$ =	**g** $\frac{10}{10}$ =

2a Write each decimal number in the box where it belongs.

0.28 0.06 0.92 0.3 0.8 0.6 0.15 0.71

less than $\frac{1}{4}$	between $\frac{1}{4}$ and $\frac{1}{2}$	between $\frac{1}{2}$ and $\frac{3}{4}$	greater than $\frac{3}{4}$

b Write the decimal numbers above in order from least to greatest.

_____ _____ _____ _____ _____ _____ _____ _____

least greatest

3 Write the following fractions and decimals in order from least to greatest.

0.3 $\frac{9}{10}$ 0.78 $\frac{1}{4}$ 0.08 0.23 $\frac{3}{4}$

_____ _____ _____ _____ _____ _____ _____

least greatest

4 Write the following fractions and decimals in order from least to greatest.

3.6 $\frac{5}{4}$ $\frac{1}{3}$ 0.02 $1\frac{1}{2}$ 2.25 $\frac{10}{4}$

_____ _____ _____ _____ _____ _____ _____

least greatest

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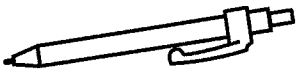
Pencils & Paint

1 Keiko wants to buy mechanical pencils for all 25 of her classmates. Mechanical pencils come in packages of 6 that each cost $2.99. If Keiko has $12 in her pocket, can she buy enough mechanical pencils right now? Show all your work.



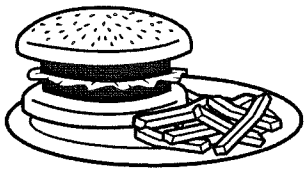
CHALLENGE

2 On Spring Cleanup Day, the fourth graders are going to paint the hallways in the school. They measured the walls and figured out that they have 4,800 sq. feet to paint. They want to paint half of the walls green and half yellow. Each gallon of green paint covers 250 sq. feet and costs $30. Each gallon of yellow paint covers 250 sq. feet and costs $32. How much will it cost them to buy enough paint to paint the hallways? Show all your work.

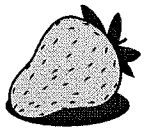
NAME _____ **DATE** _____

Decimal & Fraction Story Problems

1 Breanna is having a barbecue with her family. They need to get $2\frac{1}{4}$ pounds of ground beef for everyone to have a hamburger. Breanna found a package of ground beef at the store that was 2.4 pounds. Would that be enough ground beef for their family? Explain your answer.



2 Bob is making jam. He needs $3\frac{3}{4}$ pounds of strawberries. He put a box of berries on the scale at the farm stand. The scale said "3.6 pounds." Is that enough strawberries? Explain your answer.



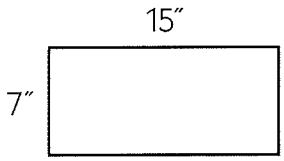
3 Leilani's mom said that they could stop for a snack sometime after they had driven $13\frac{1}{2}$ miles. The trip meter on their car shows 13.8 miles. Can they stop for a snack now?

NAME _____ **DATE** _____

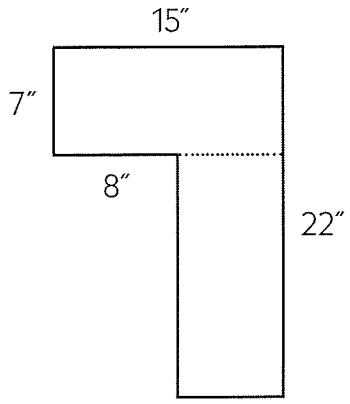
Area Problems

Determine the area of each figure below. Some figures are divided into rectangles for you with dotted lines. Show all your work.

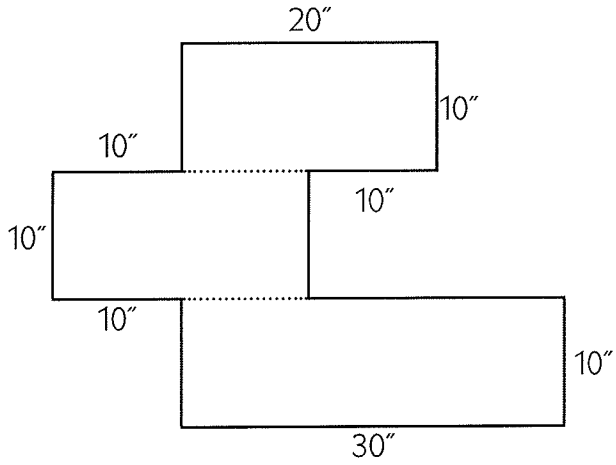
1 Area = _____



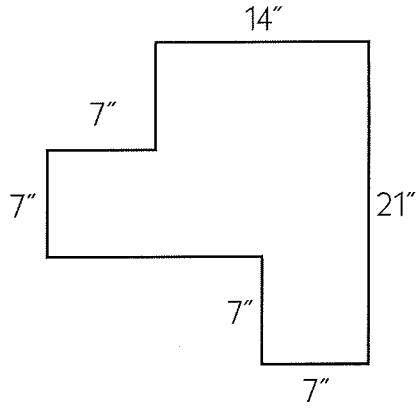
2 Area = _____



3 Area = _____



4 Area = _____



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Number Patterns & Divisibility

1 Fill in the missing numbers in each count-by sequence.

a 2	2, 4, 6, 8, 10, 12, _____, _____, _____, _____, _____, _____
b 5	5, 10, 15, 20, 25, _____, _____, _____, _____, _____, _____
c 10	10, 20, 30, 40, _____, _____, _____, _____, _____, _____

2 Write a sentence to explain what the numbers in each sequence above have in common. Hint: *Look at the numbers in the ones place.*

a All the count-by-2 numbers

b All the count-by-5 numbers

c All the count-by-10 numbers

3 All the numbers in a count-by sequence are divisible by the same number. For example, all the numbers in the count-by-2 sequence are divisible by 2. Think about whether each number below is divisible by 2, 5, and 10.

Number	Divisible by 2?	Divisible by 5?	Divisible by 10?
ex 96	yes	no	no
a 40			
b 75			
c 37			
d 110			

Number	Divisible by 2?	Divisible by 5?	Divisible by 10?
e 364			
f 930			
g 361			
h 576			
i 785			

NAME _____ DATE _____

Decimal & Fraction Riddles

1 Write the decimal number that is equal to each fraction below.

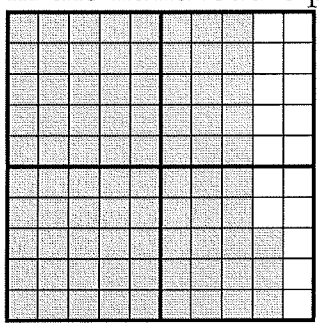
ex a $\frac{1}{2}$ = 0.5	**ex b** $1\frac{1}{2}$ = 1.5	**ex c** $\frac{6}{10}$ = 0.6	**ex d** $\frac{79}{100}$ = 0.79
a $\frac{1}{4}$ = _____	**b** $\frac{3}{4}$ = _____	**c** $\frac{7}{10}$ = _____	**d** $\frac{2}{100}$ = _____
e $\frac{30}{100}$ = _____	**f** $\frac{53}{100}$ = _____	**g** $2\frac{6}{100}$ = _____	**h** $3\frac{1}{4}$ = _____

2 Use >, <, or = to compare each pair of numbers.

a $\frac{3}{2}$ 1.5	**b** 0.6 $\frac{9}{100}$	**c** $\frac{36}{100}$ 0.25	**d** 0.75 $\frac{9}{12}$
e $83\frac{1}{2}$ 83.48	**f** $\frac{125}{100}$ 1.07	**g** $\frac{82}{100}$ 0.9	**h** $74\frac{3}{4}$ 74.8

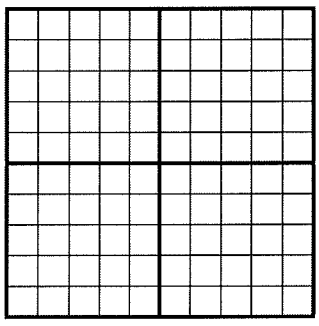
3 Shade in and label each grid to show a decimal number that fits the description. There is more than one right answer for each one.

example Show a number that is greater than $\frac{1}{2}$ and has an odd number in the hundredths place.



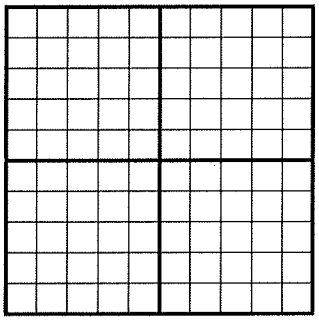
0.83

a Show a number that is greater than $\frac{3}{4}$ and has a 0 in the hundredths place.



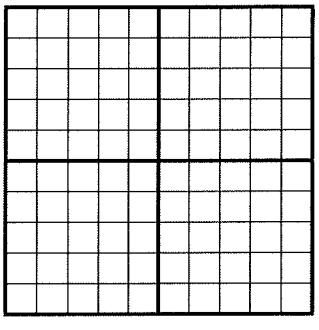
_____

b Show a number that is less than $\frac{1}{4}$ and has an even number in the tenths place.



_____

c Show a number between $\frac{1}{4}$ and $\frac{1}{2}$ with an odd number in the tenths place.



_____

NAME _____ DATE _____

Jeff's Wallpaper Problem

1 Jeff is going to hang wallpaper on the big wall in his living room. The wall is 16 feet tall and 23 feet wide. There is a window in the middle of the wall that is 5 feet tall and 8 feet wide. How many square feet of wall does Jeff have to cover with wallpaper? Hint: *Draw a picture.* Show all of your work.

2 The wallpaper Jeff wants to use comes in rolls that are 1 yard wide and 10 yards long. How many square feet of wallpaper are in each roll? Show all of your work.

CHALLENGE

3 What happens to the area of a rectangle if you double one side while cutting the other side in half? Start with the rectangle below. Draw and label two more rectangles to show what happens.