Entering 5th Grade

Summer Math Work

WCS

Name: _____

Dear Families,

It is so important for children to keep learning over the summer! Research shows that students can lose up to 2.6 months of math learning during the summer months. Research also shows that just 2 hours of work each week in math can help prevent this summer learning loss. The work in this packet has been designed to review last year's learned math skills and prepare your child for success in math this year. This will also be your child's first math grade of the year and you will need to send it to school when we return in the fall.

In this packet, you will find about 10 weeks of work, with 1-2 hours of work each week. We suggest you create a schedule that works for your family each week. Maybe you spend 15-30 minutes in the mornings working on this math work each day or maybe your child completes it all on Sunday evenings-- whatever works for you. Please do try to spread it over 10 weeks- don't try to do it all the last week of summer!

Happy summer!

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

$$\begin{array}{r} {}^{8}\cancel{9}{}^{9}\cancel{0}6 \\ -\ 458 \\ \hline 448 \end{array} \qquad \begin{array}{r} {}^{1}1 \\ 458 \\ +\ 448 \\ \hline 906 \end{array}$$

a 607 − 569

b 8,046 − 753

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 _____

Add, Subtract & Multiply

1 Solve the addition and subtraction problems below Show all your work.

$1.74 + $2.25	$20.71 + $6.55	$43.53 + $7.18	$8.14 + $7.03
$5.32 – $2.81	$3.42 – $1.84	$54.66 – $6.93	$3.04 – $1.26

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

example $2.96 + $8.45	**a** $4.72 + $2.39	**b** $506.00 – $3.57
1 1 $2.96 + $8.45 $11.41		

3 Complete these multiplication problems.

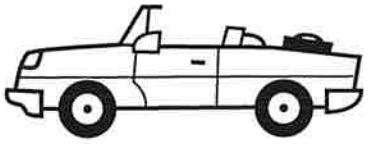
3 × 8	5 × 4	9 × 3	2 × 7	0 × 3	1 × 6
6 × 4	7 × 4	4 × 8	0 × 9	7 × 7	2 × 10

NAME _____ DATE _____

Miles, Books & Jellybeans

Solve the problems below. Show all your work.

1 Felipe's family is driving to see his grandmother. Altogether, they have to drive 856 miles. If they have gone 269 miles so far, how much farther do they have to drive?



2 In our classroom library, we had 326 books. We gave 38 books to the other fourth grade classroom, but our teacher got 97 more books for our classroom library. How many books do we have in our classroom library now?

CHALLENGE

3 At the school fair, students were guessing how many jellybeans were in a jar. Nicky guessed there were 296 jellybeans. Caitlyn guessed there were 435 jellybeans. Samira guessed a number that was 52 more than Nicky and Caitlyn's put together. What was Samira's guess?

A

Correct: _____

Multiply.

1	3 x 0 =	23	8 x 5 =
2	4 x 0 =	24	8 x 4 =
3	7 x 0 =	25	3 x 10 =
4	8 x 0 =	26	3 x 9 =
5	3 x 1 =	27	3 x 8 =
6	4 x 1 =	28	4 x 10 =
7	7 x 1 =	29	4 x 9 =
8	8 x 1 =	30	4 x 8 =
9	3 x 2 =	31	8 x 10 =
10	3 x 3 =	32	8 x 9 =
11	4 x 2 =	33	8 x 8 =
12	4 x 3 =	34	7 x 10 =
13	8 x 2 =	35	7 x 9 =
14	8 x 3 =	36	7 x 8 =
15	7 x 2 =	37	3 x 6 =
16	7 x 3 =	38	4 x 7 =
17	4 x 5 =	39	7 x 6 =
18	4 x 4 =	40	8 x 7 =
19	3 x 5 =	41	3 x 7 =
20	3 x 4 =	42	4 x 6 =
21	7 x 5 =	43	7 x 7 =
22	7 x 4 =	44	8 x 6 =

B

Improvement: _____ Correct: _____

Multiply.

1	4 x 0 =	23	7 x 5 =
2	3 x 0 =	24	7 x 4 =
3	8 x 0 =	25	4 x 10 =
4	7 x 0 =	26	4 x 9 =
5	4 x 1 =	27	4 x 8 =
6	3 x 1 =	28	3 x 10 =
7	8 x 1 =	29	3 x 9 =
8	7 x 1 =	30	3 x 8 =
9	4 x 2 =	31	7 x 10 =
10	4 x 3 =	32	7 x 9 =
11	3 x 2 =	33	7 x 8 =
12	3 x 3 =	34	8 x 10 =
13	7 x 2 =	35	8 x 9 =
14	7 x 3 =	36	8 x 8 =
15	8 x 2 =	37	4 x 6 =
16	8 x 3 =	38	3 x 7 =
17	3 x 5 =	39	8 x 6 =
18	3 x 4 =	40	7 x 7 =
19	4 x 5 =	41	4 x 7 =
20	4 x 4 =	42	3 x 6 =
21	8 x 5 =	43	8 x 7 =
22	8 x 4 =	44	7 x 6 =

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Multiples & Multiplication Facts

1 When you count by a number, you are naming the multiples of that number. For example, if you skip count by 5's, you are naming the multiples of five: 5, 10, 15, 20, 25, and so on. In each sequence below, fill in the missing multiples.

ex 5, 10, 15, 20, 25, 30, 35	**a** 3, 6, _____, 12, 15, 18, _____, 24
b 6, _____, 18, _____, 30	**c** 9, 18, _____, 36, 45, _____, 63

2 Circle all the multiples of the number in each box.

ex	5	16	(20)	(15)	42	36	(45)	18	**a**	2	5	6	7	8	14	21	10
b	4	8	6	14	16	20	28	19	**c**	7	22	33	21	14	16	42	35
d	8	28	32	48	16	60	72	19	**e**	3	21	35	18	36	44	12	29

3 Fill in the missing numbers.

$$\begin{array}{r} 9 \\ \times\ 9 \\ \hline \square \end{array} \qquad \begin{array}{r} 3 \\ \times\ 9 \\ \hline \square \end{array} \qquad \begin{array}{r} 4 \\ \times\ 4 \\ \hline \square \end{array} \qquad \begin{array}{r} 2 \\ \times\ 6 \\ \hline \square \end{array} \qquad \begin{array}{r} 7 \\ \times\ 8 \\ \hline \square \end{array}$$

$$\begin{array}{r} 3 \\ \times\ \square \\ \hline 24 \end{array} \qquad \begin{array}{r} 7 \\ \times\ \square \\ \hline 14 \end{array} \qquad \begin{array}{r} \square \\ \times\ 5 \\ \hline 30 \end{array} \qquad \begin{array}{r} \square \\ \times\ 4 \\ \hline 36 \end{array} \qquad \begin{array}{r} 3 \\ \times\ \square \\ \hline 12 \end{array}$$

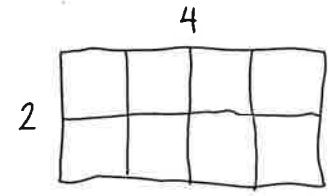
CHALLENGE

$$\begin{array}{r} 6 \\ \times\ 2 \\ \hline \square \end{array} \qquad \begin{array}{r} 6 \\ \times\ 4 \\ \hline \square \end{array} \qquad \begin{array}{r} 6 \\ \times\ 8 \\ \hline \square \end{array} \qquad \begin{array}{r} 6 \\ \times\ 16 \\ \hline \square \end{array} \qquad \begin{array}{r} 6 \\ \times\ 32 \\ \hline \square \end{array}$$

NAME _____ DATE _____

Arrays & Factors

1 Draw and label a rectangular array to show two factors for each number. Do not use 1 as one of your factors. Then write the fact family that goes with your array.

example 8	**a** 16	**b** 18
		
2 × 4 = 8	___ × ___ = ___	___ × ___ = ___
4 × 2 = 8	___ × ___ = ___	___ × ___ = ___
8 ÷ 4 = 2	___ ÷ ___ = ___	___ ÷ ___ = ___
8 ÷ 2 = 4	___ ÷ ___ = ___	___ ÷ ___ = ___

2 List all the factors of each number below.

ex 12	1, 2, 3, 4, 6, 12	**a** 16	
b 17		**c** 24	
d 9		**e** 36	

3a Circle the prime number(s) in problem 2.

b Draw a square around the square number(s) in problem 2.

CHALLENGE

4 Fill in the missing digits in the problems below.

example

$$\begin{array}{r} {}^{7}\cancel{8}\,{}^{1}\boxed{3}\,4 \\ -\,6\;9\;\boxed{3} \\ \hline \boxed{1}\;4\;1 \end{array}$$

a

$$\begin{array}{r} 3\;\square\;6 \\ +\,\square\;9\;\square \\ \hline 7\;0\;4 \end{array}$$

b

$$\begin{array}{r} 6\;2\;3 \\ -\,\square\;4\;\square \\ \hline 1\;\square\;7 \end{array}$$

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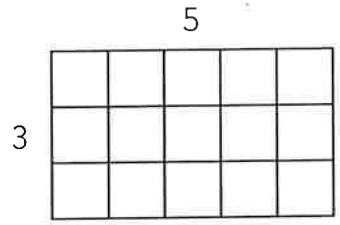
Area & Perimeter

1 Find the area and perimeter of each rectangle. Area is the total amount of space covered by the rectangle. Perimeter is the distance around the rectangle.

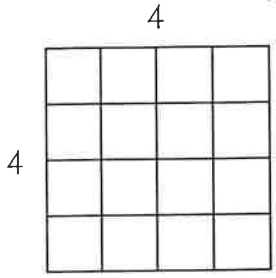
example



Perimeter 3 + 3 + 5 + 5 = 16 units

Area 3 x 5 = 15 square units

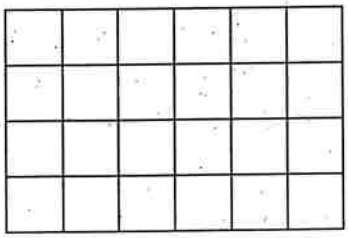
a



Perimeter _____

Area _____

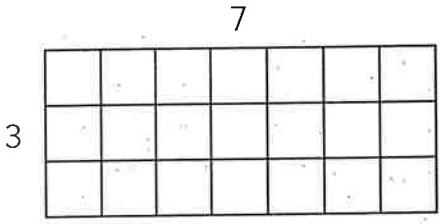
b



Perimeter _____

Area _____

c

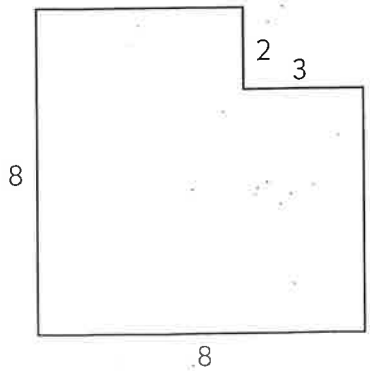


Perimeter _____

Area _____

CHALLENGE

2 Find the area and perimeter of this shape. Show all your work.



Perimeter _____

Area _____

NAME _____ DATE _____

Place Value & Perimeter

1 Write each number below in standard form.

example twenty-three thousand, five hundred six 23,506

a nine thousand, two hundred forty-eight _____

b seventeen thousand, six hundred thirty-three _____

c thirty-two thousand, fifty-eight _____

2 Identify the place value and value of the underlined digit in each number.

Number	Place Value	Value
ex 3<u>6</u>,874	thousands	six thousand
a 17,<u>6</u>04		
b 8,<u>0</u>97		
c <u>4</u>1,000		

3 Find the perimeter of each rectangle below. Show your work.

example Perimeter 1,726"

583"

280"

$$\begin{array}{r} {\scriptstyle 1}\\ 280" \\ +\ 280" \\ \hline 560" \end{array} \qquad \begin{array}{r} {\scriptstyle 1}\\ 583" \\ +\ 583" \\ \hline 1{,}166" \end{array} \qquad \begin{array}{r} {\scriptstyle 1}\\ 1{,}166" \\ +\ 560" \\ \hline 1{,}726" \end{array}$$

a Perimeter _____

126"

234"

b Perimeter _____

196"

285"

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Multiplication & Division Practice

1 Solve the following multiplication and division problems.

7 × 3 =	8 × 2 =	4 × 9 =	5 × 5 =	2 × 4 =	9 × 6 =	3 × 4 =

32 ÷ 4 = _____	20 ÷ 5 = _____	16 ÷ 8 = _____	24 ÷ 3 = _____
24 ÷ 4 = _____	15 ÷ 3 = _____	40 ÷ 5 = _____	36 ÷ 6 = _____

2 Fill in the missing numbers.

9 × 7 = ☐	3 × 0 = ☐	7 × 7 = ☐	1 × 5 = ☐	5 × 8 = ☐
7 × ☐ = 42	5 × ☐ = 40	☐ × 8 = 64	☐ × 4 = 16	3 × ☐ = 18

3 Solve the following multiplication problems.

4 × 10 =	4 × 100 =	4 × 1,000 =	7 × 10 =	7 × 100 =	7 × 1,000 =
8 × 100 =	5 × 10 =	6 × 1,000 =	2 × 10 =	9 × 100 =	0 × 1,000 =

CHALLENGE

4 Fill in the missing numbers.

300 ÷ _____ = 3 8,000 ÷ _____ = 1,000 40 ÷ _____ = 4

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Expanded Notation & Fact Families

1 Complete each equation by writing a number in standard form.

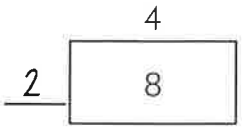
ex 17,508 = 10,000 + 7,000 + 500 + 8	a _____ = 20,000 + 400 + 50 + 6
b _____ = 30,000 + 2,000 + 100 + 10 + 2	c _____ = 7,000 + 40 + 6
d _____ = 90,000 + 6,000 + 30 + 5	e _____ = 60,000 + 3,000 + 7
f _____ = 10,000 + 3,000 + 800 + 50 + 5	g _____ = 50,000 + 300 + 5

2 Fill in the missing number in each equation.

ex 40,000 + 6,000 + 50 + 8 = 46,058	a 41,092 = 40,000 + _____ + 90 + 2
b 50,000 + 1,000 + _____ + 50 + 4 = 51,354	c 17,035 = 10,000 + _____ + 30 + 5
d 96,035 = 90,000 + 6,000 + _____ + 5	e 20,000 + _____ + 50 + 6 = 20,456
f 2,000 + 500 + _____ + 7 = 2,567	g 20,408 = 20,000 + _____ +8

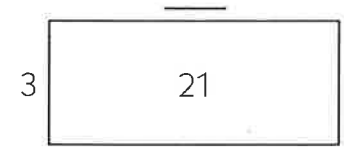
3 Fill in the missing information for each rectangle. Then write the multiplication and division fact family that goes with the rectangle.

example



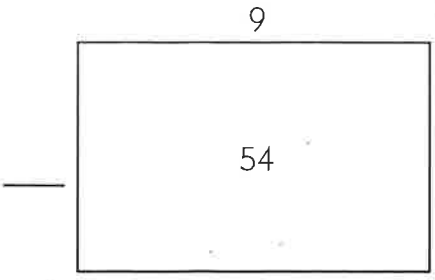
2 × 4 = 8
4 × 2 = 8
8 ÷ 4 = 2
8 ÷ 2 = 4

a



_____ × _____ = _____
_____ × _____ = _____
_____ ÷ _____ = _____
_____ ÷ _____ = _____

b



_____ × _____ = _____
_____ × _____ = _____
_____ ÷ _____ = _____
_____ ÷ _____ = _____

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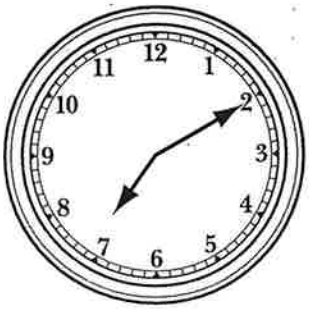
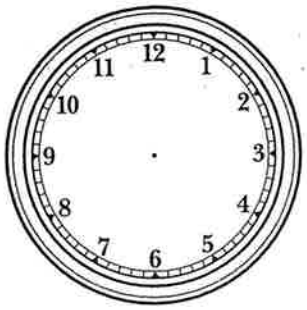
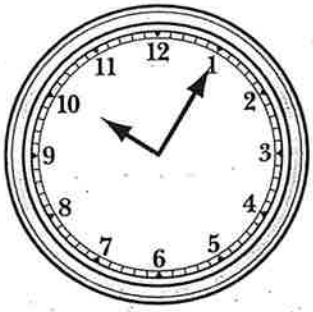
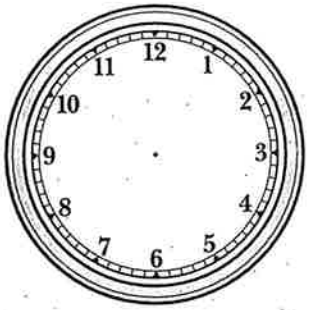
Time after Time

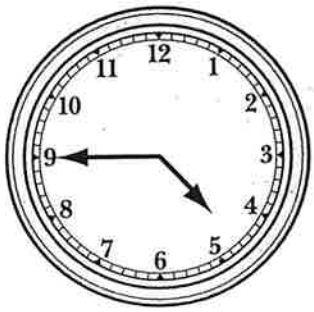
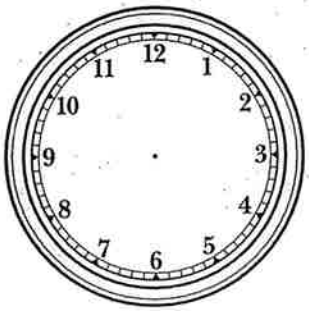
1 Show what time it would be 25 minutes after the time on the first clock.

2 Show what time it would be 15 minutes before the time shown on the first clock.

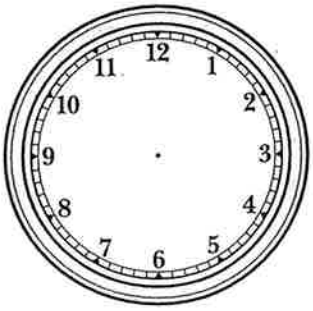
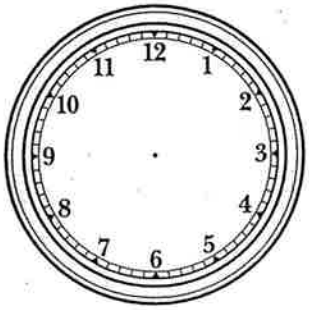



3 Show what time it would be 35 minutes after the time shown on the first clock.

CHALLENGE

4 Show two times that are 85 minutes apart.

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Number Riddles

1 Draw a line to show which number matches each description. The first one is done for you.

example This number has a 2 in the thousands place.	46,305
a This is an even number with a 6 in the hundreds place.	32,617
b This number is equal to 30,000 + 4,000 + 80 + 2.	45,052
c This number is 1000 less than 46,052.	19,628
d This is an odd number with a 6 in the thousands place.	34,082

2 Write each number in words.

example 17,329	seventeen thousand, three hundred twenty-nine
a 33,072	
b 86,105	
c 74,629	

CHALLENGE

3 Write an even number that has a 7 in the hundreds place, has an odd number in the thousands place, and is a multiple of 10.

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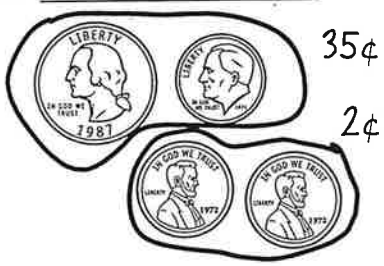
Counting Coins & Bills

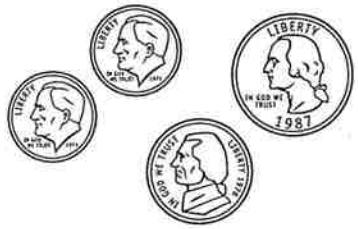
1 Write each money amount in decimal form. You can draw loops around groups of coins that make it easier for you to find the total amount.

ex $0.37



a _____

b _____



c _____

d _____

e _____

2 Write each money amount in decimal form.

example 1 dollar bill, 5 quarters, 3 pennies _____ $2.28

a 3 dollar bills, 9 nickels, 2 pennies _____

b 6 quarters, 2 dimes, 4 pennies _____

c 3 quarters, 6 nickels, 7 pennies _____

d 4 dollar bills, 3 half dollars, 7 nickels _____

e 2 dollar bills, 7 quarters, 16 pennies _____

CHALLENGE

f 12 quarters, 80 nickels, 97 pennies _____

g 24 quarters, 140 nickels, 30 dimes, 45 pennies _____

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How Much Change?

1 Sharon bought a bottle of iced tea that cost $1.65. She paid for it with a $5 bill. How much change did she get back? Show all your work.

2 Toshi bought a magazine that cost $3.89. He paid for it with a $10 bill. How much change did he get back? Show all your work.

CHALLENGE

3 Apples are on sale for 99¢ per pound. Mr. James bought 6 pounds of apples and paid for them with a $10 bill. How much change did he get back? Show all your work.

A

Correct: _____

Solve for k.

1	2 ÷ 2 = k	k =	23	15 ÷ 3 = k	k =
2	4 ÷ 2 = k	k =	24	30 ÷ 3 = k	k =
3	6 ÷ 2 = k	k =	25	k = 10 ÷ 2	k =
4	8 ÷ 2 = k	k =	26	k = 25 ÷ 5	k =
5	20 ÷ 2 = k	k =	27	16 ÷ 4 = k	k =
6	k = 20 ÷ 10	k =	28	12 ÷ 3 = k	k =
7	5 ÷ 5 = k	k =	29	k = 14 ÷ 2	k =
8	10 ÷ 5 = k	k =	30	k = 18 ÷ 2	k =
9	15 ÷ 5 = k	k =	31	12 ÷ 2 = k	k =
10	20 ÷ 5 = k	k =	32	16 ÷ 2 = k	k =
11	50 ÷ 5 = k	k =	33	35 ÷ 5 = k	k =
12	k = 50 ÷ 10	k =	34	k = 18 ÷ 3	k =
13	4 ÷ 4 = k	k =	35	24 ÷ 3 = k	k =
14	8 ÷ 4 = k	k =	36	k = 45 ÷ 5	k =
15	12 ÷ 4 = k	k =	37	24 ÷ 4 = k	k =
16	20 ÷ 4 = k	k =	38	k = 32 ÷ 4	k =
17	40 ÷ 4 = k	k =	39	40 ÷ 5 = k	k =
18	k = 40 ÷ 10	k =	40	k = 21 ÷ 3	k =
19	30 ÷ 10 = k	k =	41	27 ÷ 3 = k	k =
20	3 ÷ 3 = k	k =	42	k = 30 ÷ 5	k =
21	6 ÷ 3 = k	k =	43	28 ÷ 4 = k	k =
22	9 ÷ 3 = k	k =	44	k = 36 ÷ 4	k =

B

Improvement: _____ Correct: _____

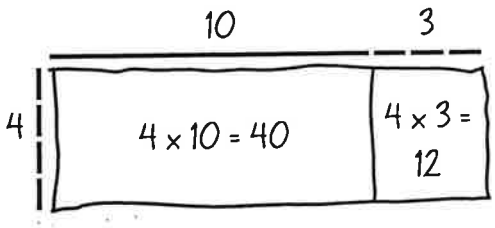
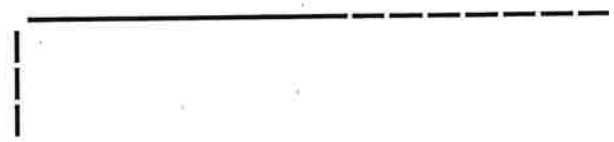
Solve for k.

1	5 ÷ 5 = k	k =	23	20 ÷ 4 = k	k =
2	10 ÷ 5 = k	k =	24	40 ÷ 4 = k	k =
3	15 ÷ 5 = k	k =	25	k = 25 ÷ 5	k =
4	20 ÷ 5 = k	k =	26	k = 10 ÷ 2	k =
5	50 ÷ 5 = k	k =	27	12 ÷ 3 = k	k =
6	k = 50 ÷ 10	k =	28	16 ÷ 4 = k	k =
7	2 ÷ 2 = k	k =	29	k = 12 ÷ 2	k =
8	4 ÷ 2 = k	k =	30	k = 16 ÷ 2	k =
9	6 ÷ 2 = k	k =	31	14 ÷ 2 = k	k =
10	8 ÷ 2 = k	k =	32	18 ÷ 2 = k	k =
11	20 ÷ 2 = k	k =	33	45 ÷ 5 = k	k =
12	k = 20 ÷ 10	k =	34	k = 21 ÷ 3	k =
13	3 ÷ 3 = k	k =	35	27 ÷ 3 = k	k =
14	6 ÷ 3 = k	k =	36	k = 35 ÷ 5	k =
15	9 ÷ 3 = k	k =	37	28 ÷ 4 = k	k =
16	12 ÷ 3 = k	k =	38	k = 36 ÷ 4	k =
17	30 ÷ 3 = k	k =	39	30 ÷ 5 = k	k =
18	k = 30 ÷ 10	k =	40	k = 18 ÷ 3	k =
19	40 ÷ 10 = k	k =	41	24 ÷ 3 = k	k =
20	4 ÷ 4 = k	k =	42	k = 40 ÷ 5	k =
21	8 ÷ 4 = k	k =	43	24 ÷ 4 = k	k =
22	12 ÷ 4 = k	k =	44	k = 32 ÷ 4	k =

NAME _____ **DATE** _____

Fill the Frames

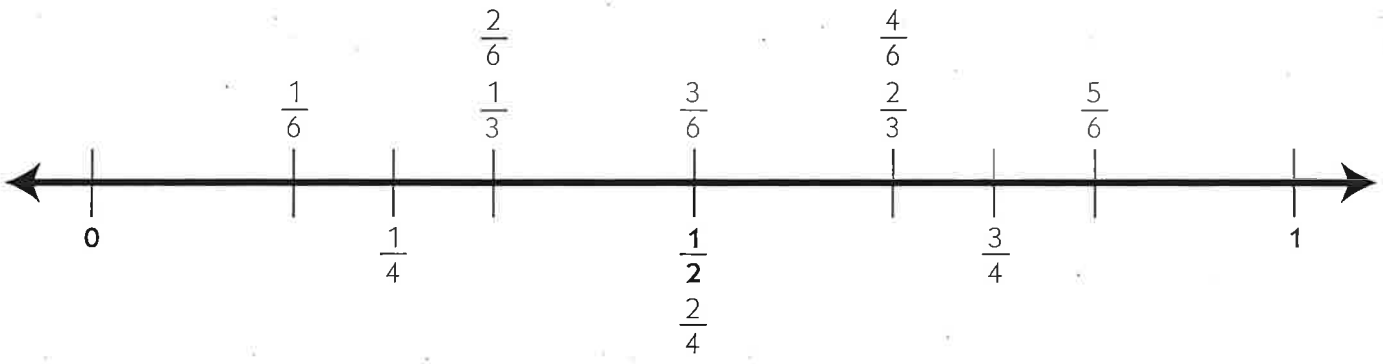
Label each array frame below. Then fill it in with labeled rectangles. Write an addition equation to show how you got the total. Then write a multiplication equation to match the array.

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

NAME _____ **DATE** _____

Comparing Fractions on a Number Line

When you are comparing fractions, it can help to think about how close those fractions are to landmarks like one whole and one-half. Use the number line to help complete the problems below.



1 Complete the table.

Circle the fraction that is greater than $\frac{1}{2}$.			Write a number sentence showing which fraction is greater.
example	(4/6)	1/4	4/6 > 1/4
a	2/6	2/3	
b	1/3	5/6	

2 Complete the table.

Circle the fraction that is closest to 1.			Write a number sentence showing which fraction is greater.
a	3/4	2/3	
b	5/6	2/3	
c	3/4	5/6	

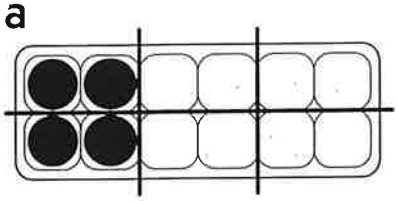
NAME _____ DATE _____

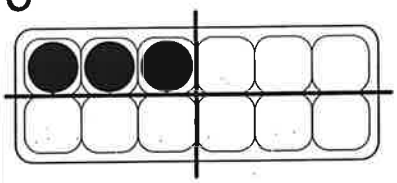
Egg Carton Fractions

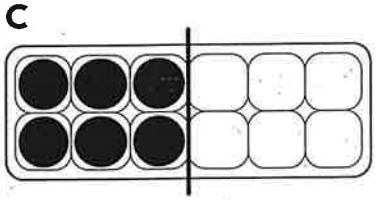
1 Solve the following multiplication and division problems. They might help you think about the egg cartons in problem 2.

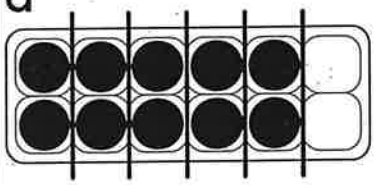
$12 \div 2 =$ _____	$12 \div 3 =$ _____	$12 \div 4 =$ _____	$12 \div 6 =$ _____
$6 \times 3 =$ _____	$4 \times 2 =$ _____	$3 \times 3 =$ _____	$2 \times 5 =$ _____

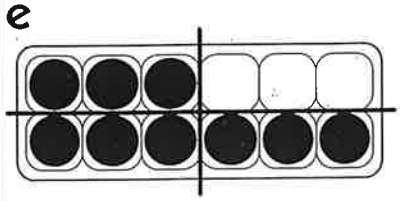
2 Write a fraction to show the amount of each egg carton that is filled with eggs. The cartons are divided into equal parts for you.

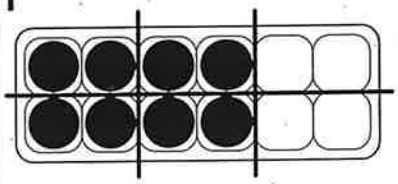
a  _____

b  _____

c  _____

d  _____

e  _____

f  _____

3 Write greater than (>) or less than (<) to show which fraction is greater. If they are equal, write an equal sign (=).

ex a $\frac{1}{4} < \frac{1}{2}$	ex b $\frac{1}{2} > \frac{1}{3}$	a $\frac{4}{6}$ $\frac{2}{3}$
b $\frac{1}{3}$ $\frac{1}{4}$	c $\frac{3}{4}$ $\frac{5}{6}$	d $\frac{1}{3}$ $\frac{3}{4}$
e $\frac{1}{2}$ $\frac{2}{4}$	f $\frac{2}{3}$ $\frac{3}{4}$	g $\frac{2}{6}$ $\frac{1}{3}$

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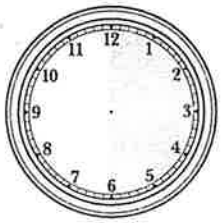
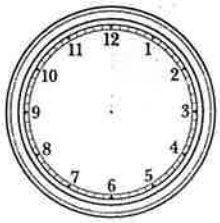
Clock Fractions

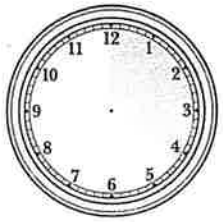
Sometimes people talk about time in fractions of an hour. For example, a quarter of an hour is 15 minutes. Half an hour is 30 minutes. The pictures below show some different fractions of an hour on clocks.



$\frac{1}{2}$ hour is 30 minutes



$\frac{1}{4}$ hour is 15 minutes

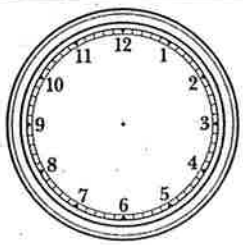
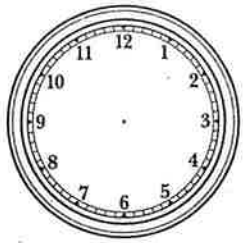
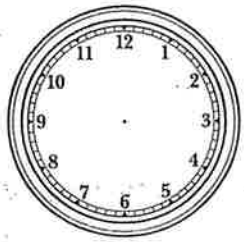


$\frac{1}{3}$ hour is 20 minutes

1 Problem 2 will be easier if you can divide 60 by some other numbers. Solve the division problems below.

a $60 \div 2 =$ _____ **b** $60 \div 3 =$ _____ **c** $60 \div 4 =$ _____ **d** $60 \div 6 =$ _____

2 Draw the following fractions on the clocks. Then write how many minutes are in each fraction of an hour.

Fractions of an Hour	Picture on a Clock	How Many Minutes?
a $\frac{3}{4}$		
b $\frac{2}{3}$		
c $\frac{1}{6}$		

NAME _____ DATE _____

Multiplication Tables

1 Complete the multiplication tables below.

ex

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

a

×	5	2	9	3	8	6	7	4
3								

b

×	5	2	9	3	8	6	7	4
4								

c

×	5	2	9	3	8	6	7	4
8								

2 Solve the division problems below.

40 ÷ 5 = _____ 27 ÷ 3 = _____ 16 ÷ 4 = _____ 20 ÷ 5 = _____

64 ÷ 8 = _____ 32 ÷ 4 = _____ 18 ÷ 6 = _____ 9 ÷ 3 = _____

CHALLENGE

3 Write an even three-digit number with:

- an odd number in the tens place
- an odd number in the hundreds place that is less than the number in the tens place
- a number greater than 5 in the ones place

4 What is 2 times the number you wrote above?

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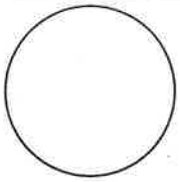
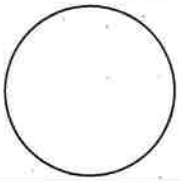
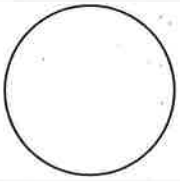
Fractions & Division

1 Sometimes the answer to a division problem is a fraction. Complete the table below.

Divide the circle into this many equal pieces	Draw on this cirlce.	Complete the division equation
example 3		$1 \div 3 = \frac{1}{3}$
a 2		$1 \div 2 =$ _____
b 4		$1 \div 4 =$ _____
c 6		$1 \div 6 =$ _____

2 Larissa and her two friends bought a giant cookie. They cut it into equal parts so that they each got the same amount. How much of the cookie did each friend get? Draw and label a picture to show your answer.

3 The next day Larissa and her 2 friends bought 4 cookies. If they shared them equally, how much did each friend get? Draw and label a picture to show your answer.

NAME _____ DATE _____

More Multiplication Tables

1 Fill in the missing numbers.

8 × 4 = ☐	6 × 5 = ☐	7 × 7 = ☐	6 × 8 = ☐	6 × 6 = ☐
8 × ☐ = 56	9 × ☐ = 63	☐ × 5 = 25	☐ × 6 = 42	8 × ☐ = 72

2 Complete the multiplication tables below.

ex

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

a

×	5	2	9	3	8	6	7	4
10								

b

×	5	2	9	3	8	6	7	4
5								

c

×	5	2	9	3	8	6	7	4
9								

CHALLENGE

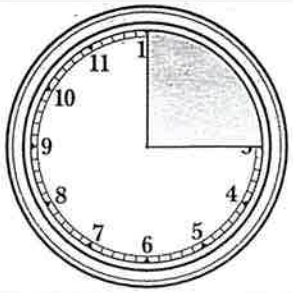
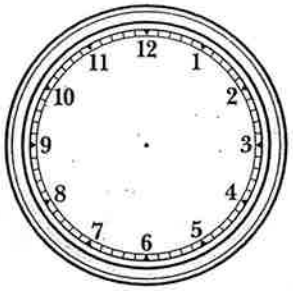
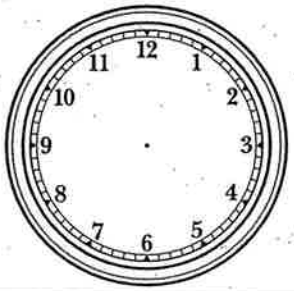
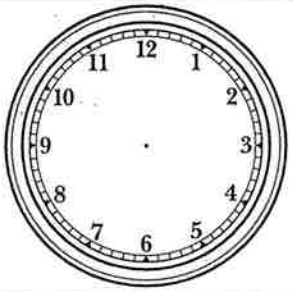
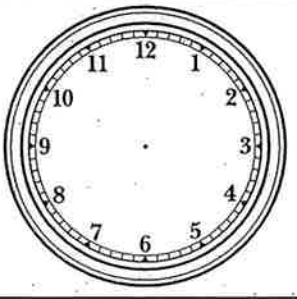
3 Use what you know about multiplying by 10 to help solve these problems.

12 × 10 = ____	12 × 5 = ____	12 × 9 = ____	18 × 10 = ____	18 × 5 = ____	18 × 9 = ____

NAME _____ DATE _____

Fractions of an Hour

Complete the table.

Fractions of an Hour	Picture on a Clock	How Many Minutes?
example $\frac{1}{4}$		15 minutes
1 $\frac{1}{3}$		
2 $\frac{3}{4}$		
3 $\frac{2}{3}$		
4 $\frac{1}{6}$		

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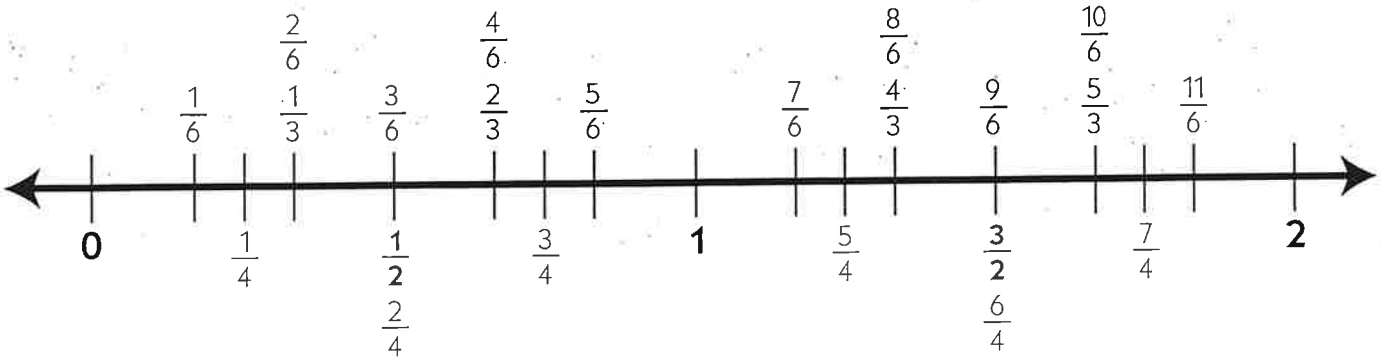
Fractions & Division Tables



1 Write a greater than (>), less than (<), or equal sign in the circle to complete each number sentence below. Use the number line to help figure out which fraction is greater.

ex $\frac{1}{4} < \frac{1}{2}$	a $\frac{3}{4}$ $\frac{5}{6}$	b $\frac{2}{3}$ $\frac{4}{6}$
c $\frac{5}{3}$ $\frac{5}{4}$	d $\frac{2}{3}$ $\frac{3}{2}$	e $\frac{1}{3}$ $\frac{3}{6}$

2 Complete the division tables below.

ex

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

a

÷	70	90	20	80	30	50	60	40
10	7							

b

÷	15	30	35	25	10	45	20	40
5	3							

c

÷	8	20	16	36	24	28	12	32
4	2							

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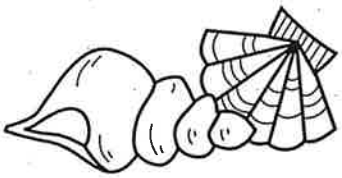
Sharing Problems

1 Kendra and Veronica's aunt gave them $19 to spend at the store. If they split the money evenly, how much did they each get to spend? Use labeled sketches, numbers, and/or words to solve this problem. Show all your work.

2 Frank had 42 shells that he wanted to share with his 4 friends. If he gave each friend the same number of shells (and kept the same number of shells for himself), how many shells did each person get? Use labeled sketches, numbers, and/or words to solve this problem. Show all your work.



CHALLENGE

3 Joe's grandma lives 36 blocks up the street from Joe. On Saturday, Joe rode his bike two-thirds of the way to his grandma's house and then realized he forgot the present he was going to give her. Joe rode back to his house, got the present, and rode all the way to his grandma's house. Then he rode straight home. How many blocks did Joe ride altogether? Use labeled sketches, numbers, and/or words to solve this problem. Show all your work.

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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

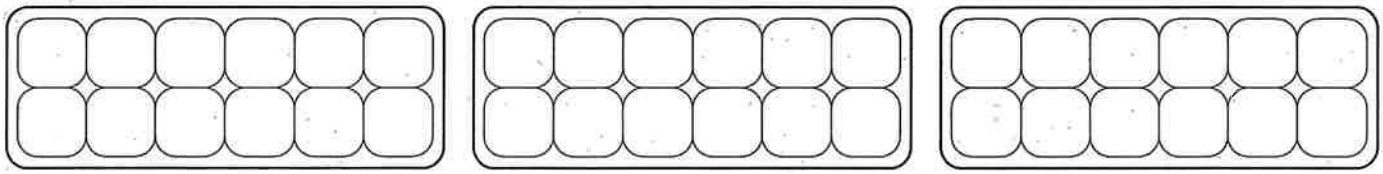
NAME _____ DATE _____

Writing Improper Fractions as Mixed Numbers

1 Complete the multiplication facts.

5 × 7 =	5 × 70 =	50 × 7 =	50 × 70 =
4 × 3 =	4 × 30 =	40 × 3 =	40 × 30 =
8 × 7 =	8 × 70 =	80 × 7 =	80 × 70 =

2 Write each fraction as a whole number or a mixed number. Some of the problems are done for you as examples. You can draw on the egg cartons to help.



$\frac{3}{3}$ = _____	$\frac{6}{3}$ = 2	$\frac{4}{3}$ = _____	$\frac{5}{3}$ = _____
$\frac{7}{3}$ = $2\frac{1}{3}$	$\frac{6}{6}$ = _____	$\frac{12}{12}$ = _____	$\frac{18}{12}$ = _____
$\frac{6}{6}$ = _____	$\frac{12}{6}$ = _____	$\frac{8}{6}$ = _____	$\frac{9}{6}$ = _____

CHALLENGE

$\frac{5}{4}$ = _____	$\frac{8}{4}$ = _____	$\frac{15}{4}$ = _____	$\frac{36}{4}$ = _____

NAME _____ DATE _____

Using Partial Products to Solve Multiplication Problems

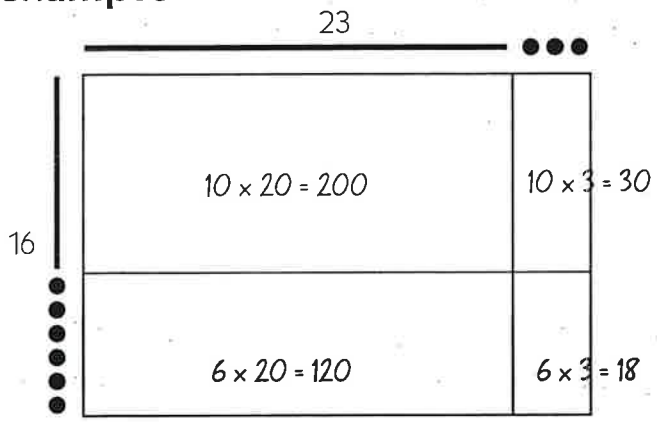
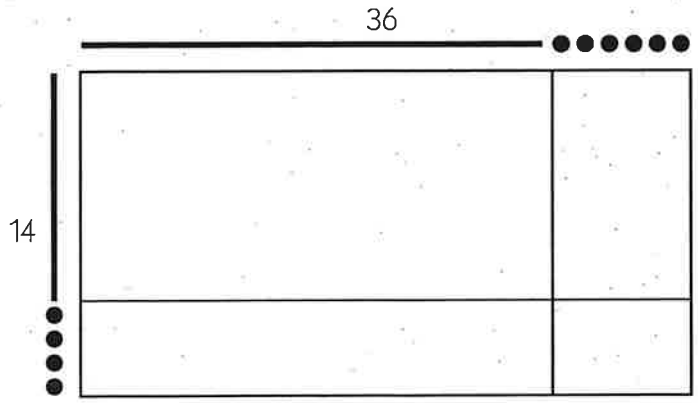
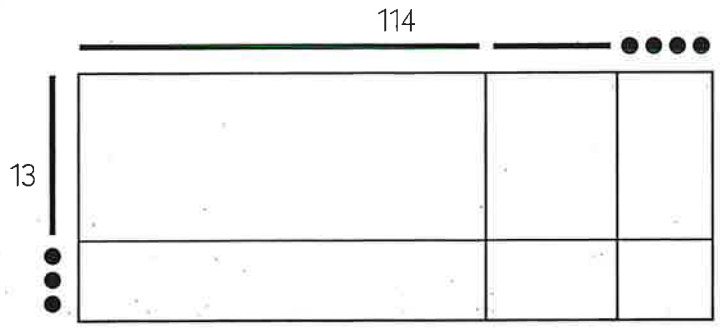
Use partial products to solve each multiplication problem below.

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

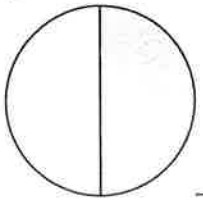
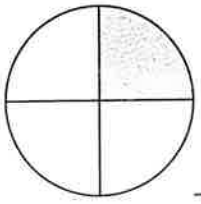
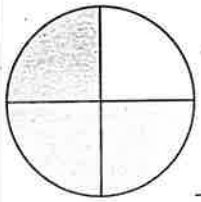
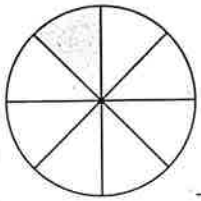
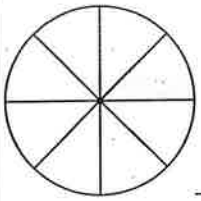
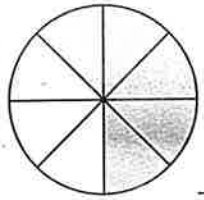
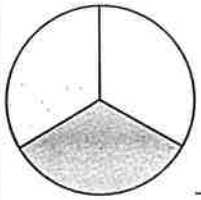
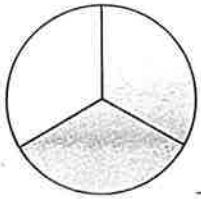
Use partial products to solve each multiplication problem below.

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	a	b	c
 $\frac{1}{2}$	 _____	 _____	 _____
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 _____.

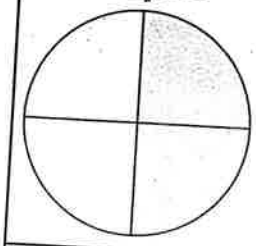
i Two-thirds of 240 is _____.

NAME _____ DATE _____

Fractions & Mixed Numbers

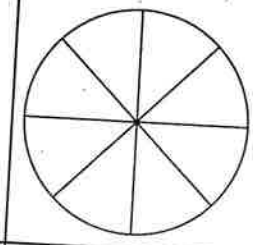
1 The circles below are divided into equal parts. Write two fractions to show what part of each circle is filled in.

example

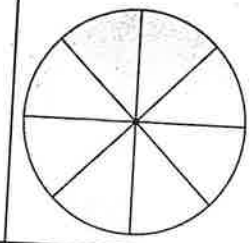


$\frac{1}{2}$ $\frac{2}{4}$

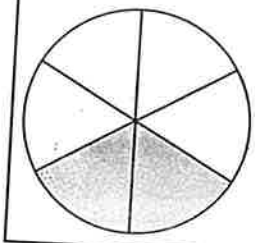
a



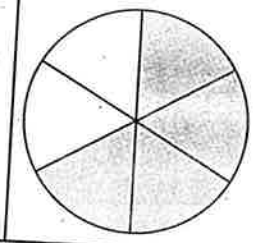
b



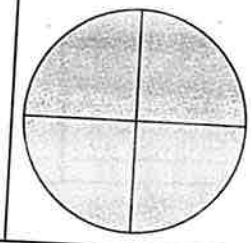
c



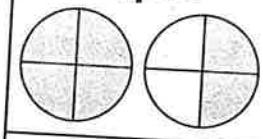
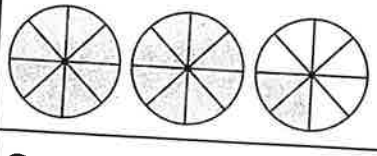
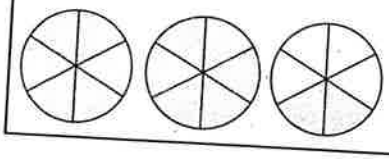
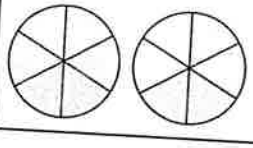
d



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.

Fractions	ex $\frac{5}{2}$	a $\frac{9}{2}$	b $\frac{9}{4}$	c $\frac{14}{4}$	d	e	CHALLENGE 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 _____

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

NAME _____ DATE _____

Decimal & Fraction Riddles

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

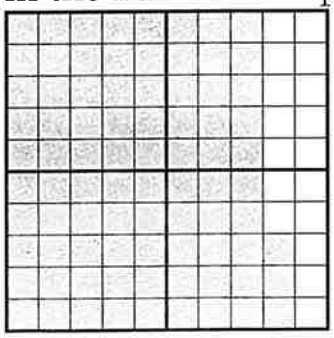
ex a $\frac{1}{2}$ = 0.5	**ex b** $1\frac{1}{2}$ = 1.5	**ex c** $\frac{6}{10}$ = 0.6	**ex d** $\frac{79}{100}$ = 0.79
a $\frac{1}{4}$ = _____	**b** $\frac{3}{4}$ = _____	**c** $\frac{7}{10}$ = _____	**d** $\frac{2}{100}$ = _____
e $\frac{30}{100}$ = _____	**f** $\frac{53}{100}$ = _____	**g** $2\frac{6}{100}$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

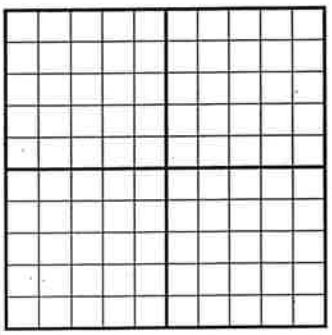
3 Shade in and label each grid to show a decimal number that fits the description. There is more than one right answer for each one.

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



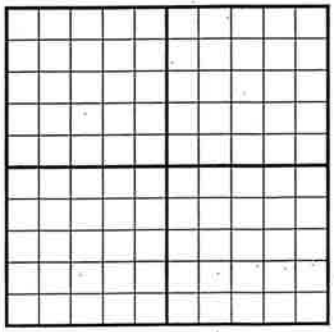
0.83

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



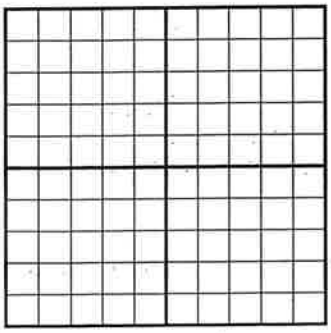
_____

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.



_____

A

Correct: _____

Multiply.

1	5 x 0 =	23	5 x 6 =
2	8 x 0 =	24	5 x 7 =
3	9 x 0 =	25	9 x 5 =
4	5 x 1 =	26	9 x 6 =
5	8 x 1 =	27	9 x 7 =
6	9 x 1 =	28	8 x 5 =
7	5 x 1 =	29	8 x 6 =
8	5 x 2 =	30	8 x 7 =
9	5 x 3 =	31	5 x 10 =
10	8 x 1 =	32	5 x 9 =
11	8 x 2 =	33	5 x 8 =
12	8 x 3 =	34	8 x 10 =
13	9 x 1 =	35	8 x 9 =
14	9 x 2 =	36	8 x 8 =
15	9 x 3 =	37	9 x 10 =
16	5 x 5 =	38	9 x 9 =
17	5 x 4 =	39	9 x 8 =
18	8 x 5 =	40	5 x 8 =
19	8 x 4 =	41	8 x 9 =
20	9 x 5 =	42	9 x 7 =
21	9 x 4 =	43	8 x 8 =
22	5 x 5 =	44	9 x 9 =

B

Multiply.

Improvement: _____ **Correct:** _____

1	5 x 1 =	23	5 x 6 =
2	8 x 1 =	24	5 x 7 =
3	9 x 1 =	25	8 x 5 =
4	5 x 0 =	26	8 x 6 =
5	8 x 0 =	27	8 x 7 =
6	9 x 0 =	28	9 x 5 =
7	5 x 1 =	29	9 x 6 =
8	5 x 2 =	30	9 x 7 =
9	5 x 3 =	31	5 x 10 =
10	9 x 1 =	32	5 x 9 =
11	9 x 2 =	33	5 x 8 =
12	9 x 3 =	34	9 x 10 =
13	8 x 1 =	35	9 x 9 =
14	8 x 2 =	36	9 x 8 =
15	8 x 3 =	37	8 x 10 =
16	5 x 5 =	38	8 x 9 =
17	5 x 4 =	39	8 x 8 =
18	9 x 5 =	40	5 x 9 =
19	9 x 4 =	41	9 x 8 =
20	8 x 5 =	42	8 x 7 =
21	8 x 4 =	43	9 x 9 =
22	5 x 5 =	44	8 x 9 =