



# Students Entering Fourth Grade

## Summer Math Packet

Name \_\_\_\_\_

Dear Parents,

The attached packet provides a range of activities that review and expand on the math concepts your child has learned in school this past year. It is designed to be worked on for 15 to 30 minutes a day throughout the summer, rather than completed in just a few days at the beginning or end of summer. The goal is to keep skills sharp to be ready to move forward into the next school year.

Students **will** be asked to hand in their completed work the first week of school.

Have a great summer!

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## Place Value Practice 3-Digit Numbers

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

<b>example</b> $300 + 20 + 9 = \underline{329}$	<b>a</b> $800 + 40 + 5 = \underline{\hspace{2cm}}$
<b>b</b> $500 + 8 = \underline{\hspace{2cm}}$	<b>c</b> $600 + 20 = \underline{\hspace{2cm}}$
<b>d</b> $500 + 80 + 7 = \underline{\hspace{2cm}}$	<b>e</b> $900 + 10 + 4 = \underline{\hspace{2cm}}$

2 Complete each equation by writing the number in expanded form.

<b>example</b> $659 = \underline{600 + 50 + 9}$	<b>a</b> $437 = \underline{\hspace{2cm}}$
<b>b</b> $\underline{\hspace{2cm}} = 508$	<b>c</b> $549 = \underline{\hspace{2cm}}$
<b>d</b> $692 = \underline{\hspace{2cm}}$	<b>e</b> $\underline{\hspace{2cm}} = 749$

3 Write each set of numbers in order from least to greatest.

<b>example</b> 207, 720, 270, 702	$\frac{207}{\text{least}}$	$\frac{270}{\hspace{1cm}}$	$\frac{702}{\hspace{1cm}}$	$\frac{720}{\text{greatest}}$
<b>a</b> 437, 347, 734, 473	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$
<b>b</b> 603, 630, 360, 316	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$
<b>c</b> 191, 119, 190, 109	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$
 <b>d</b> 6,071; 6,107; 6,017; 6,701	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$	$\underline{\hspace{1cm}}$

NAME \_\_\_\_\_

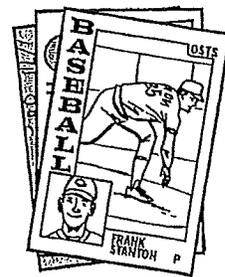
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## Double-Digit Addition

1 Add each pair of numbers. Show all your work.

<b>a</b> $30 + 65 =$   	<b>b</b> $42 + 35 =$   	<b>c</b> $46 + 38 =$   
<b>d</b> $\begin{array}{r} 53 \\ + 82 \\ \hline \end{array}$	<b>e</b> $\begin{array}{r} 67 \\ + 85 \\ \hline \end{array}$	<b>f</b> $\begin{array}{r} 94 \\ + 76 \\ \hline \end{array}$

2 Victor had 126 baseball cards. His cousin gave him 20 more cards. Then his brother gave him 58 more cards. How many baseball cards does Victor have now? Show all your work.



NAME \_\_\_\_\_

DATE \_\_\_\_\_

## Double-Digit Subtraction

1 Solve the subtraction problems. Show all your work.

<b>a</b> $67 - 28$	<b>b</b> $83 - 37$	<b>c</b> $92 - 54$
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2 Mr. Jones needs 126 pieces of construction paper to do an art project with his students. All he has is a full pack with 50 sheets of paper and an open pack with some more sheets. How many more pieces of paper does he need to borrow from the teacher next door?

**a** Choose the information that will help you solve the problem.

- There are 24 students in the class.
- The open pack has 17 sheets of paper.
- Packs of construction paper cost \$3 each.
- He has 32 pencils.

**b** Solve the problem. Show all your work. Write your answer on the line at the bottom of the page.

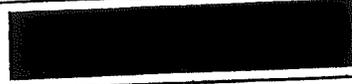
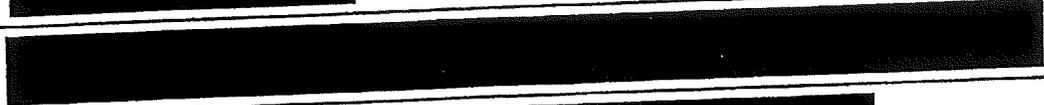
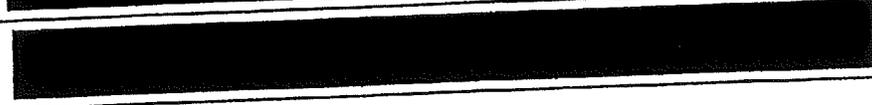
Mr. Jones needs to borrow \_\_\_\_\_ more sheets of paper.

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## Inches & Feet

1 Use a ruler marked in inches to measure each strip. Write the length in the space next to the strip. Label your answers with the correct units (inches, in. or ")

	Strip	Length
a		
b		
c		
d		

2 There are 12 inches in 1 foot. Use this information to answer the questions below.

- a How many feet are equal to 24 inches? \_\_\_\_\_
- b How many feet are equal to 36 inches? \_\_\_\_\_

3 Rodney has a piece of rope that is 144 inches long. Simon has a piece of rope that is 87 inches long. How much longer is Rodney's piece of rope? Show all your work.

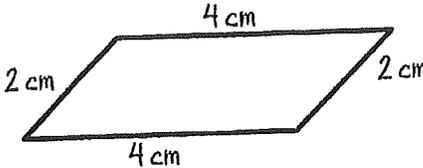
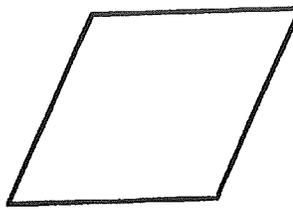
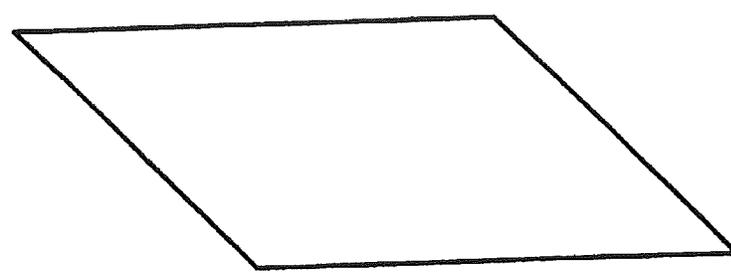
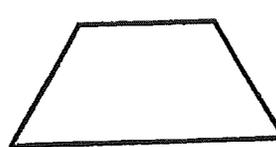


### CHALLENGE

4 Maria and Katy each have a piece of string. When they put the 2 pieces of string together end-to-end, the total length is 84 inches. Maria's string is 6 inches longer than Katy's. How long is Maria's piece of string? How long is Katy's piece of string? Show all your work. Use another piece of paper if you need to.

# Finding the Perimeters of Quadrilaterals

1 Use a ruler to measure the sides of each quadrilateral in centimeters. Label all the sides of each shape. Then find the perimeter. Show your work.

<p><b>example</b> Perimeter = <u>12 cm</u></p>  <p style="text-align: center;"><math>2 + 2 + 4 + 4 = 12 \text{ cm}</math></p>	<p><b>a</b> Perimeter = _____</p> 
<p><b>b</b> Perimeter = _____</p> 	<p><b>c</b> Perimeter = _____</p> 

2a Which shape above is a rhombus? \_\_\_\_\_

b Explain how you can tell.

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## T-Shirts, Erasers & Marbles

1 Fill in the bubble next to the equation that will help you solve each word problem.

a Marco wants to buy a T-shirt for each of his 4 cousins. Each T-shirt costs \$12. How much will Marco spend on the T-shirts in all?

- $4 + 12 = ?$      
   $4 \times 12 = ?$      
   $12 - 4 = ?$      
   $12 \div 4 = ?$

b Kaylee has 4 erasers. Imani has 12 erasers. How many more erasers does Imani have than Kaylee?

- $4 + 12 = ?$      
   $4 \times 12 = ?$      
   $12 - 4 = ?$      
   $12 \div 4 = ?$

c Lucia had 12 marbles. Her sister gave her 4 more. How many marbles does Lucia have now?

- $4 + 12 = ?$      
   $4 \times 12 = ?$      
   $12 - 4 = ?$      
   $12 \div 4 = ?$



### CHALLENGE

2 Use what you know about multiplication strategies to solve the problems below.

$\begin{array}{r} 20 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 396 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 30 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 768 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 300 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ \times 5 \\ \hline \end{array}$
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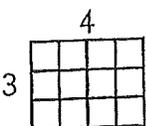
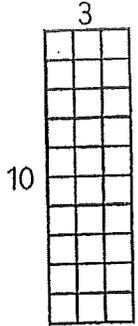
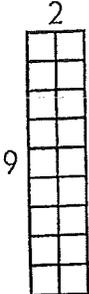
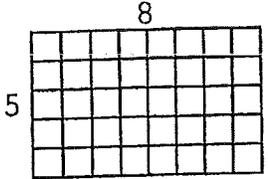
$\begin{array}{r} 42 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 365 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 999 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 60 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 53 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 428 \\ \times 10 \\ \hline \end{array}$
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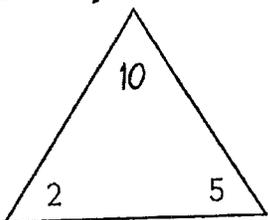
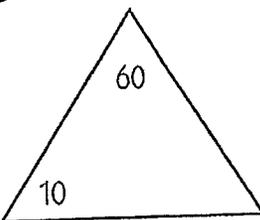
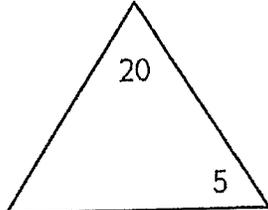
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# Multiplication & Division Fact Families

1 The fact family that belongs with each array is missing an equation. Write the missing equation for each fact family.

<p><b>example</b></p> $3 \times 4 = 12$ $\underline{4} \times \underline{3} = \underline{12}$ $12 \div 3 = 4$ $12 \div 4 = 3$	<p><b>a</b></p> $10 \times 3 = 30$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $30 \div 3 = 10$ $30 \div 10 = 3$
	
<p><b>b</b></p> $2 \times 9 = 18$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $18 \div 2 = 9$ $18 \div 9 = 2$	<p><b>c</b></p> $5 \times 8 = 40$ $8 \times 5 = 40$ $\underline{\quad} \div \underline{\quad} = \underline{\quad}$ $40 \div 8 = 5$
	

2 Fill in the missing number in each triangle and then write the fact family.

<p><b>example</b></p> 	$\underline{2} \times \underline{5} = \underline{10}$ $\underline{5} \times \underline{2} = \underline{10}$ $\underline{10} \div \underline{2} = \underline{5}$ $\underline{10} \div \underline{5} = \underline{2}$
<p><b>b</b></p> 	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \div \underline{\quad} = \underline{\quad}$ $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
<p><b>c</b></p> 	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \div \underline{\quad} = \underline{\quad}$ $\underline{\quad} \div \underline{\quad} = \underline{\quad}$

NAME \_\_\_\_\_

# Multiplication Arrays

1 Complete the multiplication facts.

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

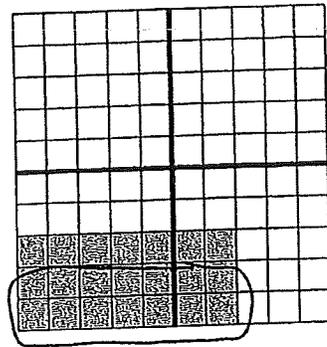
$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array}$$

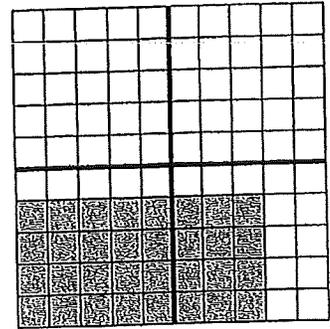
2 Use the array to show how you could solve each fact.

**example**  $3 \times 7 = \underline{21}$

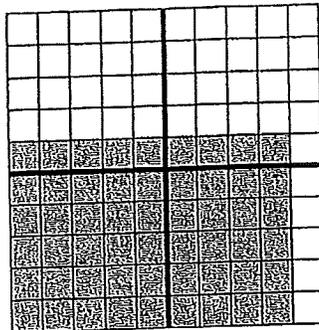
$$\begin{array}{l} 2 \times 7 = 14 \\ 14 + 7 = 21 \end{array}$$



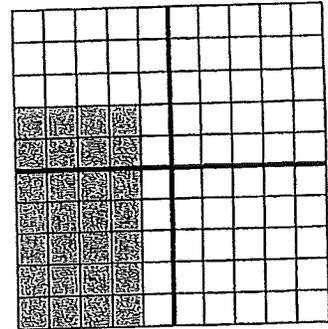
**a**  $4 \times 8 = \underline{\quad\quad}$



**b**  $6 \times 9 = \underline{\quad\quad}$



**c**  $7 \times 4 = \underline{\quad\quad}$



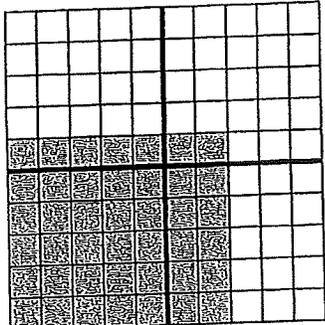
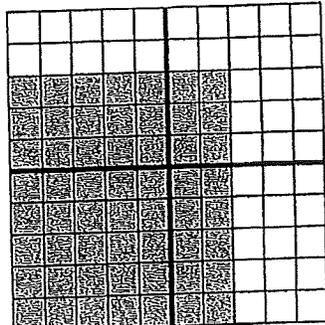
NAME \_\_\_\_\_

# Missing Numbers & Fact Families

1 Fill in the missing numbers below.

$\begin{array}{r} \times 2 \\ \square \\ \hline 12 \end{array}$	$\begin{array}{r} \times \square \\ 3 \\ \hline 27 \end{array}$	$\begin{array}{r} \times 7 \\ \square \\ \hline 14 \end{array}$	$\begin{array}{r} \times \square \\ 3 \\ \hline 30 \end{array}$	$\begin{array}{r} \times \square \\ 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ \times \square \\ \hline 0 \end{array}$
$\begin{array}{r} \times 4 \\ 3 \\ \hline \square \end{array}$	$\begin{array}{r} \times 10 \\ \square \\ \hline 70 \end{array}$	$\begin{array}{r} \times 4 \\ 5 \\ \hline \square \end{array}$	$\begin{array}{r} \times 7 \\ 3 \\ \hline \square \end{array}$	$\begin{array}{r} \times 6 \\ \square \\ \hline 18 \end{array}$	$\begin{array}{r} \times \square \\ 6 \\ \hline 30 \end{array}$

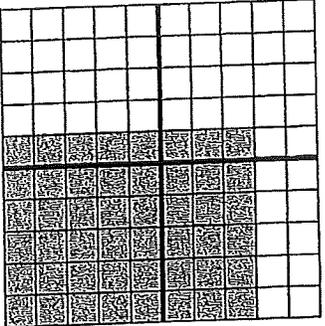
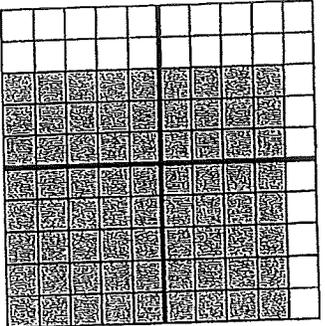
2 Write the multiplication and division fact family that goes with each array. Use the arrays to find each product if you need to.

<p><b>a</b></p>  <p>_____ × _____ = _____</p> <p>_____ × _____ = _____</p> <p>_____ ÷ _____ = _____</p> <p>_____ ÷ _____ = _____</p>	<p><b>b</b></p>  <p>_____ × _____ = _____</p> <p>_____ × _____ = _____</p> <p>_____ ÷ _____ = _____</p> <p>_____ ÷ _____ = _____</p>
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NAME \_\_\_\_\_

# More Missing Numbers & Fact Families

1 Write the multiplication and division fact family that goes with the array. Use the array to find the product if you need to.

<p><b>a</b></p>  <p>___ × ___ = ___</p> <p>___ × ___ = ___</p> <p>___ ÷ ___ = ___</p> <p>___ ÷ ___ = ___</p>	<p><b>b</b></p>  <p>___ × ___ = ___</p> <p>___ × ___ = ___</p> <p>___ ÷ ___ = ___</p> <p>___ ÷ ___ = ___</p>
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2 Fill in the missing numbers below.

$\begin{array}{r} 4 \\ \times \square \\ \hline 24 \end{array}$	$\begin{array}{r} \square \\ \times 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 2 \\ \times \square \\ \hline 16 \end{array}$	$\begin{array}{r} \square \\ \times 5 \\ \hline 50 \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline \square \end{array}$	$\begin{array}{r} 4 \\ \times \square \\ \hline 16 \end{array}$
$\begin{array}{r} 5 \\ \times 6 \\ \hline \square \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline \square \end{array}$	$\begin{array}{r} 9 \\ \times \square \\ \hline 27 \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline \square \end{array}$	$\begin{array}{r} 7 \\ \times \square \\ \hline 49 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline \square \end{array}$
$\begin{array}{r} 8 \\ \times 4 \\ \hline \square \end{array}$	$\begin{array}{r} \square \\ \times 9 \\ \hline 36 \end{array}$	$\begin{array}{r} 6 \\ \times \square \\ \hline 48 \end{array}$	$\begin{array}{r} \square \\ \times 3 \\ \hline 21 \end{array}$	$\begin{array}{r} 9 \\ \times 6 \\ \hline \square \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline \square \end{array}$

## Round, Estimate & Find the Sum

Before you start adding numbers, it is a good idea to estimate what their sum will be. That way, you can tell if your final answer is reasonable. Round each pair of numbers to the nearest ten and then add the rounded numbers to estimate the sum. Then use the standard algorithm to find the exact sum.

Numbers to Add	Round and Add	Estimated Sum	Exact Sum (use the algorithm)
<b>ex</b> $\begin{array}{r} 348 \\ + 173 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ 350 \\ + 170 \\ \hline 520 \end{array}$	The sum will be about <u>520</u> .	$\begin{array}{r} 11 \\ 348 \\ + 173 \\ \hline 521 \end{array}$
<b>1</b> $\begin{array}{r} 267 \\ + 338 \\ \hline \end{array}$		The sum will be about _____.	$\begin{array}{r} 267 \\ + 338 \\ \hline \end{array}$
<b>2</b> $\begin{array}{r} 438 \\ + 583 \\ \hline \end{array}$		The sum will be about _____.	$\begin{array}{r} 438 \\ + 583 \\ \hline \end{array}$
<b>3</b> $\begin{array}{r} 842 \\ + 159 \\ \hline \end{array}$		The sum will be about _____.	$\begin{array}{r} 842 \\ + 159 \\ \hline \end{array}$

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## Place Value Four-Digit Numbers

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

**example**  $8,000 + 20 + 6 = \underline{8,026}$

**a**  $4,000 + 800 + 30 + 1 = \underline{\hspace{2cm}}$

**b**  $9,000 + 400 + 60 + 2 = \underline{\hspace{2cm}}$

**c**  $\underline{\hspace{2cm}} = 7,000 + 60 + 2$

**d**  $5,000 + 300 + 80 = \underline{\hspace{2cm}}$

**e**  $\underline{\hspace{2cm}} = 2,000 + 100 + 4$

2 Fill in the missing numbers or words.

Numbers	Words
<b>ex a</b> 5,629	five thousand six hundred twenty-nine
<b>ex b</b> 3,082	three thousand eighty-two
<b>a</b>	two thousand twelve
<b>b</b>	eight thousand five hundred sixty-seven
<b>c</b> 6,032	
<b>d</b> 1,583	

3 Use your estimation skills to answer each question *yes* or *no* without adding or subtracting to find an exact answer.

**a** The Lighting Bolts need 200 points to make it to the next round of the basketball tournament. So far, they have 154 points. If they score 37 more points by the end of the game, will they make it to the next round?

**b** Simon has \$300 to spend. Can he afford to buy a bike for \$150, safety lights for \$34, and a good helmet for \$56?

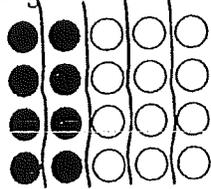
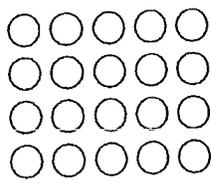
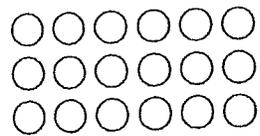
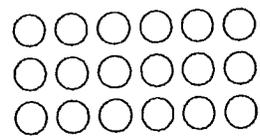
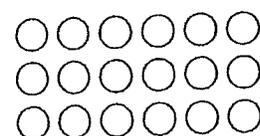
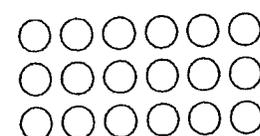


## More Division & Fractions

1 Complete the division facts. They may help you with the next problem.

- a  $20 \div 5 = \underline{\quad}$       b  $20 \div 10 = \underline{\quad}$       c  $18 \div 2 = \underline{\quad}$   
 d  $18 \div 3 = \underline{\quad}$       e  $18 \div 6 = \underline{\quad}$       f  $18 \div 9 = \underline{\quad}$

2 Divide each set into equal groups. Shade in some circles to show each fraction. (Hint: The denominator (bottom number) shows how many equal groups. The division problems above will help you think about how many circles should be in each equal group.)

<p><b>ex</b> Shade in <math>\frac{2}{5}</math> of the circles.</p>  <p>5 equal groups. 2 groups are shaded in.</p>	<p><b>a</b> Shade in <math>\frac{4}{10}</math> of the circles.</p> 
<p><b>b</b> Shade in <math>\frac{3}{6}</math> of the circles.</p> 	<p><b>c</b> Shade in <math>\frac{5}{6}</math> of the circles.</p> 
<p><b>d</b> Shade in <math>\frac{2}{3}</math> of the circles.</p> 	<p><b>e</b> Shade in <math>\frac{8}{9}</math> of the circles.</p> 

3 Which fraction or fractions above are less than  $\frac{1}{2}$ ?

4 Write  $<$ ,  $>$ , or  $=$  to compare two fractions. Use the pictures above to help.

<p><b>a</b> <math>\frac{2}{5}</math>      <math>\frac{2}{3}</math></p>	<p><b>b</b> <math>\frac{5}{6}</math>      <math>\frac{8}{9}</math></p>	<p><b>c</b> <math>\frac{3}{6}</math>      <math>\frac{2}{3}</math></p>
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NAME \_\_\_\_\_

DATE \_\_\_\_\_

## Money & Chair Problems

1 Jasmine's neighbor paid her \$32 for helping with some yard work. Jasmine gave her brother \$8 because he helped her with some of the work. Then she went shopping with the rest of the money. She bought 3 books that were \$6 each and a bottle of juice for \$1.89. How much money did she have left? Show all your work.

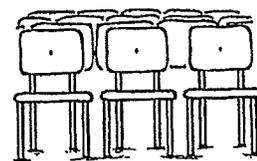


2a The third graders are putting on a play for the fourth and fifth graders. They need to set up chairs in the gym for the fourth and fifth graders to sit on. There are 86 fourth graders, 79 fifth graders, 3 fourth grade teachers, and 3 fifth grade teachers. How many chairs will the third graders need to set up? Show all your work.



### CHALLENGE

b The third graders can put no more than 20 chairs in a row. How many rows of chairs will they need? Show all your work.



NAME \_\_\_\_\_

## Larger Multiplication

You can break a two-digit number into tens and ones to multiply it by another number. Use this method to solve the multiplication problems below.

Problem	Break larger numbers into tens and ones. Then multiply.	Add the two products.	Your Answer
<b>ex</b> $\begin{array}{r} 16 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$ $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$ <p>Break 16 into 10 and 6. Multiply both by 4</p>	$40 + 24 = 64$	$\begin{array}{r} 16 \\ \times 4 \\ \hline 64 \end{array}$
<b>1</b> $\begin{array}{r} 14 \\ \times 4 \\ \hline \end{array}$			$\begin{array}{r} 14 \\ \times 4 \\ \hline \end{array}$
<b>2</b> $\begin{array}{r} 13 \\ \times 6 \\ \hline \end{array}$			$\begin{array}{r} 13 \\ \times 6 \\ \hline \end{array}$
<b>3</b> $\begin{array}{r} 15 \\ \times 7 \\ \hline \end{array}$			$\begin{array}{r} 15 \\ \times 7 \\ \hline \end{array}$
<b>4</b> $\begin{array}{r} 18 \\ \times 8 \\ \hline \end{array}$			$\begin{array}{r} 18 \\ \times 8 \\ \hline \end{array}$

# Multiplication Tables - 2 to 12 practice

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## Grade 4 Multiplication Worksheet

Find the product.

1.  $8 \times 12 =$  \_\_\_\_\_ 2.  $4 \times 10 =$  \_\_\_\_\_ 3.  $8 \times 8 =$  \_\_\_\_\_

4.  $7 \times 11 =$  \_\_\_\_\_ 5.  $6 \times 3 =$  \_\_\_\_\_ 6.  $6 \times 9 =$  \_\_\_\_\_

7.  $6 \times 11 =$  \_\_\_\_\_ 8.  $3 \times 10 =$  \_\_\_\_\_ 9.  $8 \times 10 =$  \_\_\_\_\_

10.  $9 \times 8 =$  \_\_\_\_\_ 11.  $4 \times 7 =$  \_\_\_\_\_ 12.  $2 \times 10 =$  \_\_\_\_\_

13.  $7 \times 2 =$  \_\_\_\_\_ 14.  $5 \times 12 =$  \_\_\_\_\_ 15.  $9 \times 7 =$  \_\_\_\_\_

16.  $9 \times 10 =$  \_\_\_\_\_ 17.  $11 \times 9 =$  \_\_\_\_\_ 18.  $2 \times 6 =$  \_\_\_\_\_

19.  $2 \times 4 =$  \_\_\_\_\_ 20.  $8 \times 11 =$  \_\_\_\_\_ 21.  $12 \times 5 =$  \_\_\_\_\_

22.  $4 \times 11 =$  \_\_\_\_\_ 23.  $10 \times 12 =$  \_\_\_\_\_ 24.  $9 \times 2 =$  \_\_\_\_\_

25.  $10 \times 2 =$  \_\_\_\_\_ 26.  $6 \times 5 =$  \_\_\_\_\_ 27.  $11 \times 11 =$  \_\_\_\_\_

## Multiplication Tables - 2 to 12 practice

Find the product.

1.  $7 \times 5 =$  \_\_\_\_\_ 2.  $3 \times 7 =$  \_\_\_\_\_ 3.  $2 \times 10 =$  \_\_\_\_\_

4.  $2 \times 11 =$  \_\_\_\_\_ 5.  $5 \times 2 =$  \_\_\_\_\_ 6.  $5 \times 10 =$  \_\_\_\_\_

7.  $6 \times 6 =$  \_\_\_\_\_ 8.  $3 \times 2 =$  \_\_\_\_\_ 9.  $12 \times 5 =$  \_\_\_\_\_

10.  $2 \times 9 =$  \_\_\_\_\_ 11.  $9 \times 10 =$  \_\_\_\_\_ 12.  $12 \times 3 =$  \_\_\_\_\_

13.  $8 \times 9 =$  \_\_\_\_\_ 14.  $6 \times 2 =$  \_\_\_\_\_ 15.  $4 \times 7 =$  \_\_\_\_\_

16.  $12 \times 11 =$  \_\_\_\_\_ 17.  $10 \times 5 =$  \_\_\_\_\_ 18.  $5 \times 3 =$  \_\_\_\_\_

19.  $5 \times 6 =$  \_\_\_\_\_ 20.  $4 \times 6 =$  \_\_\_\_\_ 21.  $4 \times 4 =$  \_\_\_\_\_

22.  $10 \times 7 =$  \_\_\_\_\_ 23.  $12 \times 8 =$  \_\_\_\_\_ 24.  $4 \times 2 =$  \_\_\_\_\_

25.  $7 \times 10 =$  \_\_\_\_\_ 26.  $11 \times 9 =$  \_\_\_\_\_ 27.  $2 \times 3 =$  \_\_\_\_\_

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## Multiply in columns - 1 digit by 2 digit

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Find the product.

$$\begin{array}{r} 1. \quad 44 \\ \times 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 35 \\ \times 8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 91 \\ \times 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 19 \\ \times 8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 77 \\ \times 2 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 33 \\ \times 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 34 \\ \times 4 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 98 \\ \times 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 50 \\ \times 7 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 17 \\ \times 7 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 52 \\ \times 1 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 63 \\ \times 8 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 18 \\ \times 6 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 28 \\ \times 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 51 \\ \times 3 \\ \hline \\ \hline \end{array}$$

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Complete the following problems:

1.  $6 \times 7 =$  \_\_\_\_\_

2.  $5 \times 4 =$  \_\_\_\_\_

3.  $3 \times 7 =$  \_\_\_\_\_

4.  $8 \times 2 =$  \_\_\_\_\_

5.  $2 \times 3 =$  \_\_\_\_\_

6.  $3 \times 4 =$  \_\_\_\_\_

7.  $6 \times 4 =$  \_\_\_\_\_

8.  $7 \times 7 =$  \_\_\_\_\_

9.  $2 \times 9 =$  \_\_\_\_\_

10.  $6 \times 6 =$  \_\_\_\_\_

11.  $3 \times 8 =$  \_\_\_\_\_

12.  $2 \times 12 =$  \_\_\_\_\_

13.  $1 \times 6 =$  \_\_\_\_\_

14.  $0 \times 9 =$  \_\_\_\_\_

15.  $9 \times 3 =$  \_\_\_\_\_

16.  $5 \times 9 =$  \_\_\_\_\_

17.  $4 \times 7 =$  \_\_\_\_\_

18.  $3 \times 2 =$  \_\_\_\_\_

19.  $7 \times 2 =$  \_\_\_\_\_

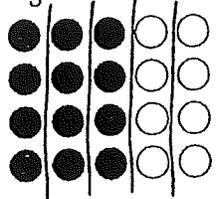
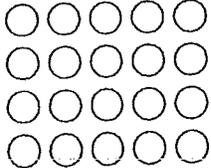
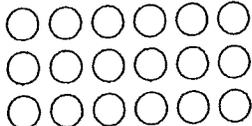
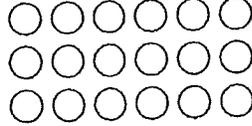
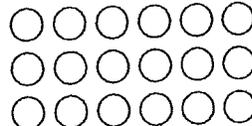
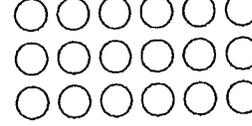
20.  $5 \times 8 =$  \_\_\_\_\_

## Division & Fractions

1 Complete the division facts. They may help you with the next problem.

- a  $20 \div 5 = \underline{\quad}$       b  $20 \div 10 = \underline{\quad}$       c  $18 \div 2 = \underline{\quad}$   
 d  $18 \div 3 = \underline{\quad}$       e  $18 \div 6 = \underline{\quad}$       f  $18 \div 9 = \underline{\quad}$

2 Divide each set into equal groups. Shade in some circles as directed.

<p><b>ex</b> Shade in <math>\frac{3}{5}</math> of the circles.</p>  <p>5 equal groups, 3 groups are shaded in.</p>	<p><b>a</b> Shade in <math>\frac{2}{10}</math> of the circles. Hint: <i>Divide the set into 10 equal groups.</i></p> 
<p><b>b</b> Shade in <math>\frac{1}{2}</math> of the circles. Hint: <i>Divide the set into 2 equal groups.</i></p> 	<p><b>c</b> Shade in <math>\frac{2}{6}</math> of the circles. Hint: <i>Divide the set into 6 equal groups.</i></p> 
<p><b>d</b> Shade in <math>\frac{1}{3}</math> of the circles. Hint: <i>Divide the set into 3 equal groups.</i></p> 	<p><b>e</b> Shade in <math>\frac{4}{9}</math> of the circles. Hint: <i>Divide the set into 9 equal groups.</i></p> 

3a Find two fractions above that are equal. Write them here:

b How do you know these fractions are equal?