Mess Macabactary addinad Suna

Understanding Addition

Name ______ Class _____ Date



Charles has 5 crayons. The treacher gives him 4 more crayons. Kirby has 4 crayons. The teacher gives her 5 more crayons. How many crayons does each of them have in all?







Charles:

___ + __







Kinby

4

+ 5

= =

Charles and Kirby each have ____ crayons.

TRY IT TOGETHER

Find each sum.

- **3** + 4 = ___

 - + 1 = + 1 = + 1 =
- 6 5 + 7 = ____
 - 7,____,___,

4 + 9 = ____

8 7 # 8 =

WORK ON YOUR OWN

Add Whole Numbers

Using Symbols

1.
$$7+6$$

6+6+1=

$$12 + 1 = 13$$

So,
$$7 + 6 = 13$$
.

Using Words

Find a doubles addition fact with the two addends. Double the lesser addend, then add the remaining 1 to the sum.

2. 8 + 2 8,9,10 \$0,8 + 2 = 10.

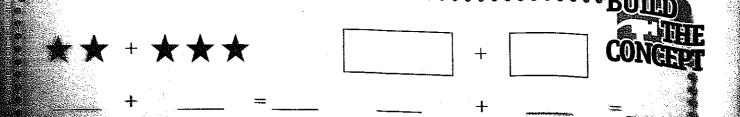
If doubles plus 1 cannot be used, use the counting on strategy. Begin with the greater addenst and count on from that addend to find the sum.

Commutative and Associative Properties of Addition

Name	Class	Date



Marcus has 3 video games. He receives 2 more as gifts. How many total video games does Marcus have?



TRY IT TOGETHER

Rewrite each addition problem using the Commutative or Associative Property of Addition. Then solve.

WORK ON YOUR OWN

Use the Commutative and Associative Properties of Addition

Using Symbols

$$(\mathbf{4}, \mathbf{4}, \mathbf{5}) + 5 = \mathbf{4} + (\mathbf{5} + \mathbf{5})$$

$$(4 + (5 + 5) = 4 + 10 = 14$$

Using Words

Commutative Property of Addition:

Changing the order of the addends does not affect the sum.

Associative Property of Addition:

Grouping the addends in any order does not affect the sum.

Using a Problem-Solving Plan



9+1=____

2 9+5=____

- **3** 7+6 = ____
- Mike has 5 goldfish in his pond. He buys 7 more goldfish at the pet store and adds them to the pond. How many goldfish are in the pond now?
 - a. Find: _____
 - b. How? _____
 - c. Solve. _____ + ___ = ____ goldfish
 - d. Is the answer reasonable? Explain.

RY IT TOGETHER

Solve the problem.

Yesterday, 4 chicks hatched. Today, 2 chicks hatched. There are 6 other eggs in the nest that will hatch. After all the eggs hatch, how many chicks will there be?

a. Find:

b. How? _____

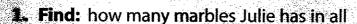
c. Solve. _____ + ____ = ____ chicks

d. Is the answer reasonable? Explain.

WORK ON YOUR OWN

Solve a Problem Using a Problem-Solving Plan

Julie has 6 marbles in a bag. John gives her 4 more. How many marbles does Julie have in all?



- 2. **How?** Add 6 and 4.
- **8. Solve.** 6 + 4 = 10 marbles
- 4. Is the answer reasonable? Explain. Yes, because, using the counting on strategy, starting at 6 and counting on 4 more gives 10.



Understanding Subtraction

Name _____ Date _____

OF STARTED

- Julie has 8 new trading cards. She has 6 old trading cards. How many trading cards does she have in all? _____ + ___ = ____ trading cards
- 9 甲甲甲甲甲甲甲

_____ mailboxes in all _____ mailboxes crossed out ____ = mailboxes left

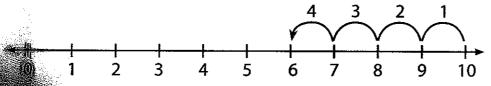
- Steve's cat had 7 kittens. He gave 4 kittens away. How many kittens are left?

 ____ = ____ kittens left
- Joy has 9 silver dollar fish in her fish tank. She also has 5 angelfish. How many more silver dollar fish than angelfish does Joy have?

 ____ = ____ silver dollar fish
- **5** 8 6 = _____

Joan had 10 students in her gymnastics class. Four students moved up to the next class. How many students are left in Joan's class?





students left in Joan's gymnastics class.



Solve each problem.

- There are 10 turtles on a log. Then 5 turtles crawl away. How many turtles are left on the log?
- Ava has 12 balloons. David has 4 balloons. How many more balloons does Ava have than David?

 = balloons
- **8** 15 6 = ____

WORK ON YOUR OWN

Subtract Two Numbers

Using Symbols

Using Words

- 1. 11 5 11 ..., 10, 9, 8, 7, 6
- Begin with the larger number and count back, or take away, the smaller number.
- 2. So 11 = 5 = 6.
- The result is called the difference.

Addition and Subtraction Fact Families

Name _____ Class ____ Date

CET STARTED

$$5 + 4 = 9$$

$$9 - 4 = 5$$

$$4 + 5 = 9$$

$$9-5=4$$
 . .

Use the model to find the difference of 8 and 3.





$$= 8$$

$$50.8 - 3 =$$
_____.



Waite the addition and subtraction facts for each fact family.

WORK ON YOUR OWN

Writing Addition and Subtraction Fact Families

Using Symbols

Addition Subtraction Facts Facts

$$3 + 4 = 7$$
 $7 - 4 = 3$

$$4 + 3 = 7$$
 $7 - 3 = 4$

Using Words

Two addends and their sum make a fact family. Each fact in a fact family uses the same three numbers. The three numbers in a fact family make two addition facts and two subtraction facts.

If the two addends are the same, the three numbers make one addition fact and one subtraction fact.

Problem-Solving: Finding Patterns

	TARTED
	, 4, 6, 8,
loc	(and Bust played a game locá played the first 4 turns. He clanned his
har	é and Brett played a game. José played the first 4 turns. He clapped his nds like this: 2 claps, 4 claps, 6 claps, 8 claps. Brett continued the pattern. w many times did Brett clap?
har Ho	nds like this: 2 claps, 4 claps, 6 claps, 8 claps. Brett continued the pattern.
har Ho a.	nds like this: 2 claps, 4 claps, 6 claps, 8 claps. Brett continued the pattern. w many times did Brett clap? Find:
har Ho a.	nds like this: 2 claps, 4 claps, 6 claps, 8 claps. Brett continued the pattern. w many times did Brett clap?
har Ho a. b.	nds like this: 2 claps, 4 claps, 6 claps, 8 claps. Brett continued the pattern. w many times did Brett clap? Find:
har Ho a. b.	nds like this: 2 claps, 4 claps, 6 claps, 8 claps. Brett continued the pattern. w many times did Brett clap? Find: How? 2,4,6,8,



Use a pattern to solve each problem.

Megan placed 18 cards in the first row, 15 cards in the second row, 12 cards in the third row, and 9 cards in the fourth row. If she continues this pattern, how many cards will she place in the fifth row?

a.	Find:	

- b. How? _____
- c. Solve. Rule:

18, 15, 12, 9, _____

There will be _____ cards in the fifth row.

- d. Is the answer reasonable? Explain.
- 6 How many cards will be in the sixth row? _____ cards

WORK ON YOUR OWN

Solve a Problem by Finding Patterns

Howard collects marbles. The first week he had 4 marbles. In the second week he had 8 marbles. In the third week he had 12 marbles. If this pattern continued, how many marbles would Howard have in the fourth week?

- 1. Find: how many marbles Howard would have in the fourth week
- 2. How? Find the pattern.
- 3. Solve. Rule: Count forward by 4.

4, 8, 12, 16

Howard will have 16 marbles in the fourth week.

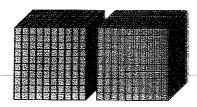
4. Is the answer reasonable? Explain. Yes, because 12 phus 4 is equal to 16.

New Vocabulary
(1911)
ExplainMed motation
place value
period
thousands period

Place Value and Expanded Notation

Name _____ Date _____











2 a. ____ thousands

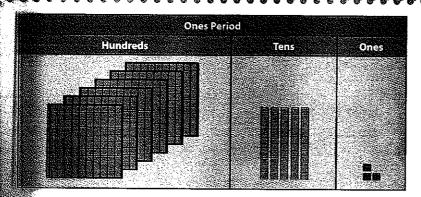
____ hundreds

____ tens

____ ones

b.

	Thousands Period			Ones Period	
Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones



CONCERT BUILD

653 = _____ hundreds + _____ tens + ____ **ones**

653 = _____ + ____ + _____ + _____

Writing Whole Numbers Through Millions Using Words

A100		
4.0		D
vame.	Cl	Date
Contractor -	Class	Date
V-60-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	C1033	
UMILITY.		







a. _____ hundreds



c. _____



_____ tens



____ones



Millions Period	Thousands Period Ches Period
Hundred Ten Millions Millions Millions	Hundred Ten Thousands Hundreds Tens Ones Thousands Thousands
6	0 9 2 63 2 0

million, _____ thousand, _____



Standard Form	2,003,110			
Word Form	two	, three thous	and,	hundred
Expanded Form	2,000,000 + _	+	+	



TOGETHER

Whate each number using words.

5 500,002 _____

6 8,670,060 _____

3,050,000 _____

WORK ON YOUR OWN

Write Whole Numbers Through Millions Using Words

Using Symbols

- 1. 2,010,009 two million,
- 2. 2,010,009 two million, ten thousand,
- 3. 2,010,009 two million, ten thousand, nine

Using Words

Write words for the number of millions. Write the word million and a comma. If there are no millions, do not write anything.

Write words for the number of thousands. Write the word thousand and a comma. If there are no thousands, do not write anything.

Write words for the number of ones. If there are no ones, do not write anything.



Writing Whole Numbers Through Millions Using Digits

Name Clas	s Date
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GET STARTED.

Hundred Ten Millions Millions Millions	Hundred Ten Thousands Thousands	Hundreds Tens Ones
1	1 0 1	0 0331550

- million, thousand
- eight thousand, sixty-four _____
- three hundred twenty-seven thousand, three _____
- two million, three hundred four thousand _____
- five million, seven _____

Expanded Form	20,000 + 5,000 + 200 + 10 + 5				
Word Form	twenty-five	, two	fifteen		
Standard Form					



TRY IT TOGETHER

Write each number using digits.

- 6 three million, five hundred twenty thousand, seventy-one
- two million, seven hundred thousand, nine hundred six _____
- 8 four million, three hundred two thousand ______
- 9 two hundred thousand, three _____

WORK ON YOUR OWN

Write Whole Numbers Through Millions Using Digits

Using Symbols

two million, thirty-three thousand, thirteen 2,

- two million, thirty-three thousand, thirteen
 2,033,
- 3. two million, thirty-three thousand, thirteen 2,033,013

Using Words

Write the digit(s) for the words to the left of the word million. Write a comma to the right of the digit(s).

Write the digits) for the words to the left of the word thousand. Write a comma to the right of the digit(s).

If there are millions and the word thousand is not there, write three 0s followed by a comma.

Write the digit(s) for the words in the ones period. If there are no words to the right of the word thousand, write three 0s.

Comparing Whole Numbers

Mame	·			Class		Date		
GE	GET STARTED							
1	six million,	three hund	red seven	thousand, f	ive hundred	l seventeei	າ	
2)	3 8		3 83	3 43		4 15	12	
(3))	6,711,519	6,711,41	9					
	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	
(3)	403,847	3,808,214	78.					
	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	
			(1990) (1					
	8,101,902	8,101,90	2					

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
<u> </u>						