Name _____ Date _____

Place Value Through Hundred Thousands

Example
standard form: 267,321
expanded form: 200,000 + 60,000 + 7,000 + 300 + 20 + 1
short word form: 267 thousand, 321
word form: two hundred sixty-seven thousand, three hundred twenty-one

Write each number in standard form.

1. 400,000 + 30,000 + 1,000 + 500 + 20 + 4 _____

2. 10,000 + 800 + 3 _____

3. Two hundred thousand, six–hundred and thirty-seven _____

4. 500,000 + 2,000 + 4 _____

Write each number in short word form and in word form.

5. 678,003 _____

6. 3,427 _____

7. 52,900 _____

8. 3,010 _____

Write each number in expanded form. Then write the value of each underlined digit.

9. 4,7<u>8</u>9 _____

10. <u>2</u>3,401 _____

11. 7<u>8</u>,100 _____

12. 300,0<u>7</u>0 _____

13. 2,9<u>9</u>9 _____

Name _____   Date _____

Compare and Order Numbers

Example
34,890 ◯ 30,489
34,890 > 30,489

Compare. Write < , > , or = for each ◯.

1. 56,200 ◯ 5,620

2. 345,100 ◯ 354,100

3. 287 ◯ 1,000

4. 389,800 ◯ 390,800

5. 290,999 ◯ 39,999

6. 289,765 ◯ 289,765

7. 634,000 ◯ 640,000

Write the numbers in order from greatest to least.

8. 2,100   2,001   2,010

9. 999   1,000   199

_____   _____

Write the numbers in order from least to greatest.

10. 389,000   398,000   309,800

11. 2,134   21,304   20,143

_____   _____

Problem Solving • Reasoning

12. Mark's family drove 3,876 miles on their vacation. Suki's family flew 3,786 miles on an airplane. Which family went the greater distance?

_____

13. Mrs. Wills's class learned to spell 1,101 words this year. Mr. Hernandez's class learned to spell 1,111 words. Which class learned more spelling words?
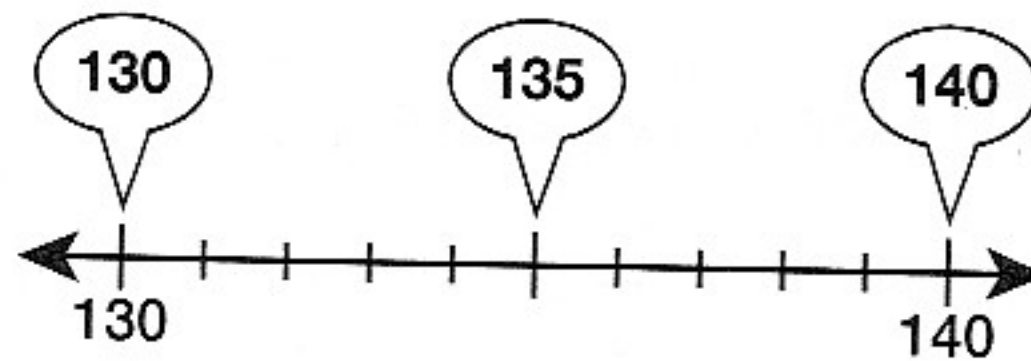
_____

Name _____ Date _____

Rounding Numbers

Example
134
rounds to: **130**

Use the number line to round each number to the nearest ten.

1. 131   **2.** 135   **3.** 138   **4.** 132   **5.** 139   **6.** 134

_____   _____   _____   _____   _____   _____

Round each number to the place of the underlined digit.

7. 89,100   **8.** 79   **9.** 109   **10.** 780   **11.** 23,900   **12.** 150

_____   _____   _____   _____   _____   _____

13. 134   **14.** 990   **15.** 12,678   **16.** 13,675   **17.** 20,001   **18.** 1,890

_____   _____   _____   _____   _____   _____

19. 1,367   **20.** 11,974   **21.** 36,539   **22.** 44,846   **23.** 4,842   **24.** 7,666

_____   _____   _____   _____   _____   _____

Problem Solving • Reasoning

25. Selina had 149 baseball cards. Mark had 150 cards. Round each of these numbers to the nearest hundred.

_____

26. Stephanie and Travis counted 327 students who bought a school lunch on Friday. Round 327 to the nearest ten and then to the nearest hundred.

_____

Name _____ Date _____

Problem-Solving Skill: Estimated or Exact Amounts

Use this article from the school newspaper to help solve each question.

> **School Library Short on Books**
> We think the Lincoln Elementary School library has fewer books than it should. The school population at Lincoln is almost 600 students. The 1,576 books in our library are not enough. Centerville Elementary, with just over 300 students, has about 1,200 books in its library. We think that students should organize a fundraiser to buy books for the library. If each student raised about $10.00 we could add almost 500 books to our library.

1. How many students attend Lincoln Elementary School? Is the number an exact number or an estimate?

> **Think:** Is there a clue that tells whether the number was rounded?

_____

2. How many students attend Centerville Elementary? Is this an exact amount or an estimate?

> **Think:** Is this an amount that was counted?

_____

3. How many books are in the Lincoln Elementary school library? Is this an exact amount or an estimate?

_____

4. How many books are in the Centerville school library? Is this an exact amount or an estimate?

_____

Solve. Use these and other strategies.

Problem-Solving Strategies

• Use Logical Reasoning	• Write an Equation	• Find a Pattern	• Draw a Picture

5. The first day, Steven could do the facts in 20 minutes. The next day, he needed 16 minutes. The third day, he did his facts in 12 minutes. If he continues this pattern, how long is it likely to take on the fourth day?

_____

6. Five students will make a math activity kit for kindergarten students at their school. It will take about 60 hours. Students will share the work equally. About how many hours will each student work? Is your answer an exact amount or an estimate?

_____

Name _____ Date _____

How Big Is 1 Million?

1. The average residential block in New York City has 1,000 residents. How many blocks would you circle on a city map to represent one million people?

_____

Complete the table to find the answer.

Number of Blocks	Number of People per Block	Total Number of People
1		
10		
50		
100		
1,000		

2. A factory can make 1,000 bottles each hour. How long will it take to make one million bottles?

_____

Complete the table to help you find the answer.

Number of Hours	Number of Bottles	Total Number of Bottles
1	1,000	
10	1,000	
100	1,000	
1,000	1,000	

3. Write About It: Name three things that you would count or measure by millions.

_____

_____

Name _____ Date _____

Place Value Through Hundred Millions

Example
standard form: 76,989,100
expanded form: 70,000,000 + 6,000,000 + 900,000 + 80,000 + 9,000 + 100
short word form: 76 million, 989 thousand, 100
word form: seventy-six million, nine hundred and eighty-nine thousand, one hundred

Write each number in three other ways.

1. 467,000,000

2. 40,000,000 + 1,000,000 + 80,000 + 20

_____

_____

_____

_____

_____

_____

Write the place of the number 5 in each number. Then write its value.

3. 578,900

4. 5,247,601

5. 658,921,347

6. 590,000,000

Problem Solving • Reasoning

7. The planet Saturn is about 889,000,000 miles from the Sun. Write this number in three other ways.

8. The planet Jupiter is about 483,000,000 miles from the Sun. What digit of this number is in the 10 millions place?

Name _____ Date _____

Compare and Order Greater Numbers

Example
13,987,345 ◯ 13,977,345
13,987,345 > 13,977,345

Compare. Write > , < or = for each ◯.

1. 245,987,101 ◯ 24,598,710

2. 867,756,890 ◯ 99,999,899

3. 209,808,909 ◯ 209,080,090

4. 108,900,222 ◯ 180,900,222

5. 234,234,234 ◯ 234,234,234

6. 5,678 ◯ 56,788

7. 978,000,000 ◯ 987,000,000

8. 434,267,612 ◯ 434,276,611

9. 712,128,579 ◯ 712,123,999

Write the numbers in order from least to greatest.

10. 8,756,234; 87,687,234; 9,756,234

_____

11. 189,000,453; 99,004,053; 189,001,453

_____

12. 728,619,976; 728,599,212; 728,614,119

_____

Problem Solving • Reasoning

13. A new national fast food chain sold 19,867,010 sandwiches last year. Is that number less than 19,867,110 and more than 19,867,001?

14. Toreytown has a population of 1,098,789 people. Abbeyville has 999,789 people, and Glen Springs has 1,900,000 people. Which town has more people than Toreytown, Abbeyville or Glen Springs?

Name _____ Date _____

Rounding Greater Numbers

Round each number to the place of the underlined digit.

Example

3,8̲97,156
rounds to: **3,900,000**

1. 2̲3,956,100 _____

2. 1̲,999,999 _____

3. 2̲01,101,101 _____

4. 2̲5,000,000 _____

5. 198̲,000,500 _____

6. 2̲4,999,999 _____

7. 98̲,798,034 _____

8. 75̲,650,430 _____

9. 2̲44,687,790 _____

10. 1̲6,992,186 _____

11. 989̲,483,989 _____

Mental Math Which place was each number rounded to?
Write *ten thousands, hundred thousands,* or *millions.*

12. 45,900,899 ⟶ 46,000,000 _____

13. 123,809,123 ⟶ 123,800,000 _____

14. 143,679,354 ⟶ 143,680,000 _____

15. 548,902,587 ⟶ 549,000,000 _____

16. 677,249,519 ⟶ 677,250,000 _____

17. 492,831,497 ⟶ 493,000,000 _____

Problem Solving • Reasoning

18. The paper clip factory made 245,987,100 clips in one day. What would this number be rounded to the nearest ten thousand?

_____

19. The number 35,000,000 is only one greater than 34,999,999. Round each of these numbers to the nearest ten million. What is the difference between the rounded numbers?

_____

Name _____ Date _____

Problem-Solving Strategy: Use Logical Thinking
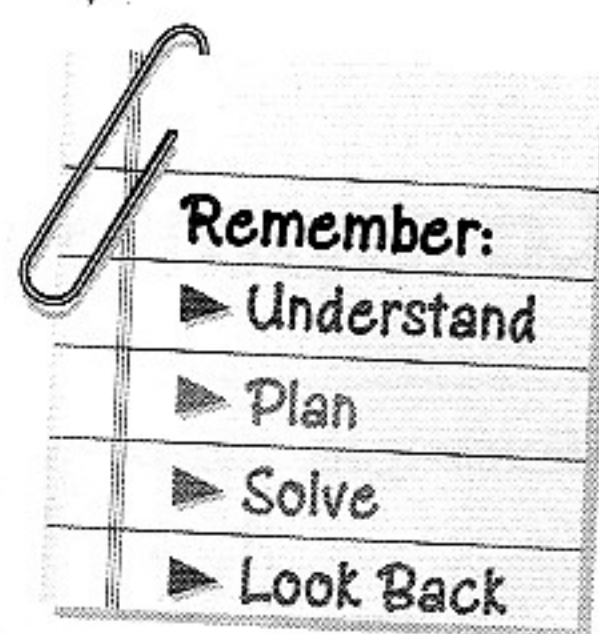
Solve.

1. Four students grew bean plants. The plants were 13 cm, 15 cm, 17 cm, and 20 cm tall. Jim's was tallest. Sara's was 2 cm taller than Mark's. Erica's was shortest. How tall was Mark's plant?

Think: What are the heads of each column and row in my table?

2. Sue and 3 friends scored 90, 86, 89, 94, and 100 on a spelling test. Sue scored higher than Mike. Juan scored 3 points higher than Li. Ellen scored the highest. What was Sue's score?

Think: What are the heads of each column and row in my table?

3. On Monday, students saw 15 birds at the feeder. On other days they saw 12, 13, 19, and 20 birds. They saw fewer birds on Wednesday than on Monday. Friday they saw the most birds. How many birds did they see Thursday?

4. The track team ran a fifty-yard race. Erica had the fastest time: 15 seconds. The other times were 18, 20, and 25 seconds. Janie was slower than Erica, but she was faster than Will. Joe ran slowest. What was Will's time?

Solve. Use these and other strategies.

Problem-Solving Strategies			
• Find a Pattern	• Use Logical Thinking	• Draw a Picture	• Make a Table

5. Maria jumps rope at recess. On Monday, she jumps for 8 minutes without missing. On Tuesday, she jumps 10 minutes without missing. On Wednesday, she jumps for 12 minutes. How many minutes might she jump on Thursday?

6. Luis and Karen bought a total of 14 items at the grocery store. Luis bought two more than twice the number of items that Karen bought. How many items did each person buy?

Name _____ Date _____

Compare Money Amounts

Example

$21.61 $25.06

$25.06 is the greater amount

Write each amount. Then write the greater amount.

1.   or

_____   _____

_____

2. 5 quarters, 2 dimes, 1 penny   **or**   8 dimes, 1 nickel, 1 half-dollar

_____   _____

3. 8 dimes, 5 quarters, 2 nickels   **or**   7 quarters, 5 nickels, 32 pennies

_____   _____

_____

Problem Solving • Reasoning

4. Tom has three one-dollar bills, two ten-dollar bills, one quarter, one dime, and two pennies. Does he have enough to buy a shirt that costs $25.00?

5. Yoko has three one-dollar bills, two twenty-dollar bills, one five-dollar bill, and seven dimes. Her sister has $45.00. Who has more money?

_____   _____
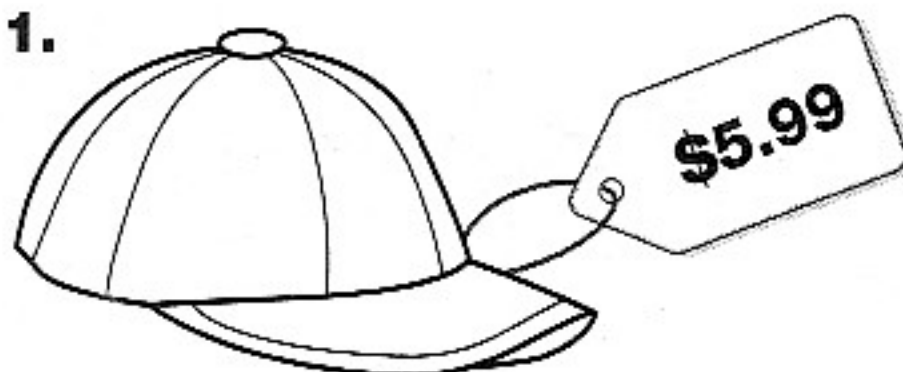
Name _____ Date _____

Make Change

A twenty-dollar bill was used to buy each item below. List the coins and bills you would use to make change.
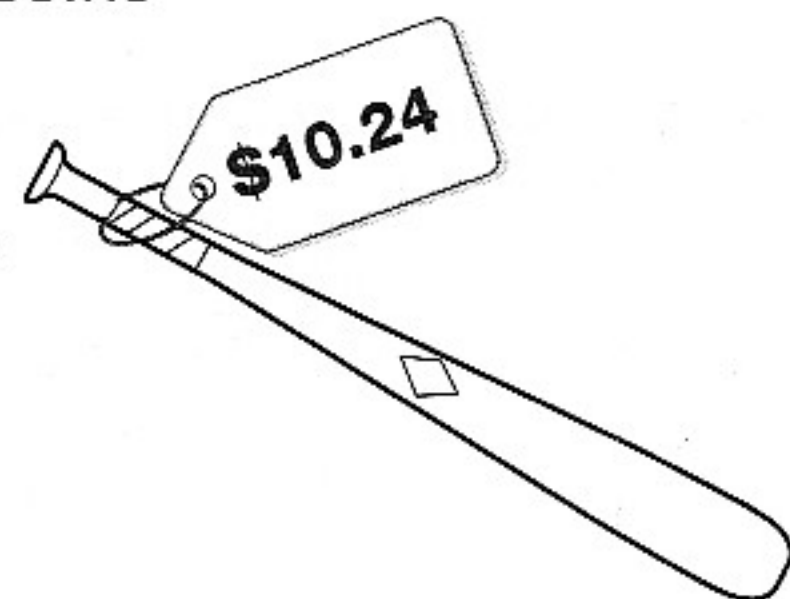
Example

$16.99

The change is
3 one-dollar bills
and one penny

1. $5.99

_____
_____
_____

2. $10.24

_____
_____
_____

3. cost of item: $4.19

_____
_____

4. cost of item: $19.12

_____
_____

5. cost of item $1.50

_____
_____

Write the names of the coins and bills you would use to make change for each of the following.

6. You paid with 1 five-dollar bill.
You bought an item worth $3.99

_____

7. You paid with 3 one-dollar bills.
You bought an item worth $2.67
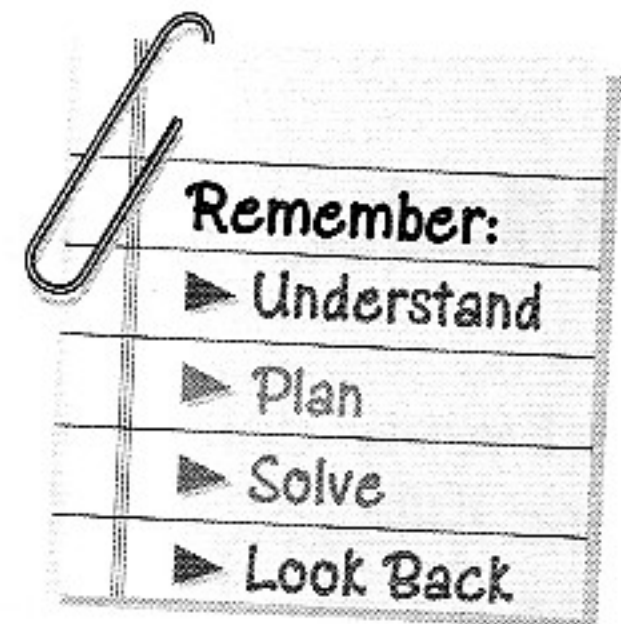
_____

Problem Solving • Reasoning

8. Sarah bought soda that cost $1.15.
She paid with 1 five-dollar bill.
What bills and coins should
she receive as change?

_____

9. Enrique bought a movie ticket
that cost $6.25. What bills and
coins should he receive as change
if he paid with 1 ten-dollar bill?

_____

Name _____ Date _____

Problem Solving Application: Use Money

Use the information below to solve the problems.

$12.40 $5.15 $2.95 $23.10 $25.80

1. Nicole buys a cap and a pair of socks. She pays with 1 five-dollar bill, 2 one-dollar bills, and 5 quarters. How much change should she get?

   Think: How can I find the amount she paid with?

   _____

2. Steve bought a pair of pants and one other item. He paid with a ten-dollar bill and a twenty-dollar bill. He received $1.75 in change. What other item did he buy?

   Think: What amount do I need to figure out first?

   _____

3. Luis bought a shirt and a pair of shoes. He received $1.80 in change. How much money did he give the clerk?

   _____

4. Alex bought two different items with $16.00. He received change. What items did he buy?

   _____

Solve. Use these and other strategies.

Problem-Solving Strategies

| • Use Logical Thinking | • Write an Equation | • Find a Pattern | • Act It Out |

5. Mark and his mother agree to share the cost of new shoes evenly. The shoes cost $30.00. How much will each of them pay?

   _____

6. Lynn saves $5.00 the first week. The next week, she saves another $5.00. At this rate, how much will she have saved in four weeks?

   _____