401

MATHEMATICS 401

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MATHEMATICS 401

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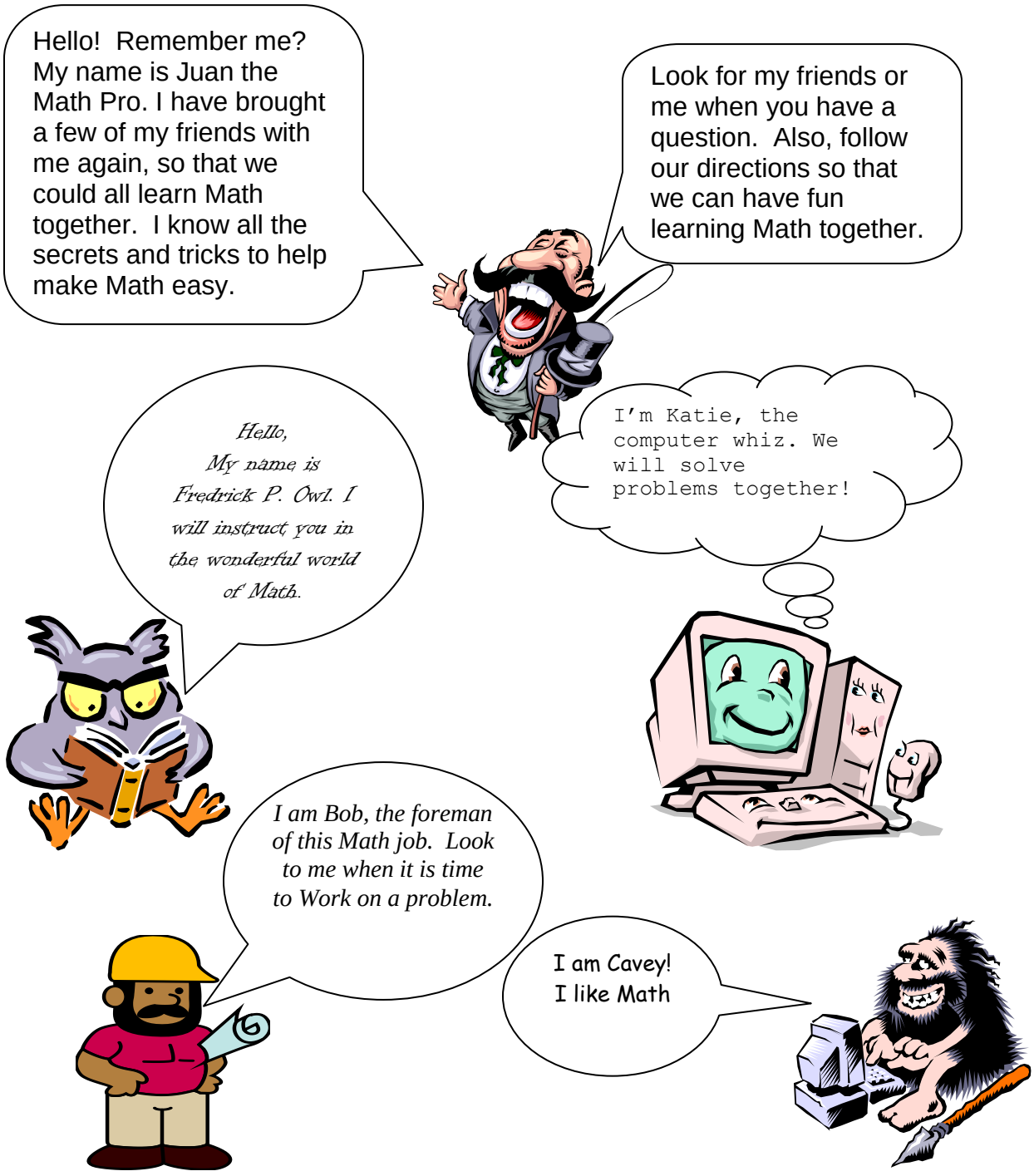

Hello! Remember me? My name is Juan the Math Pro. I have brought a few of my friends with me again, so that we could all learn Math together. I know all the secrets and tricks to help make Math easy.
Look for my friends or me when you have a question. Also, follow our directions so that we can have fun learning Math together.
Hello, My name is Fredrick P. Owl. I will instruct you in the wonderful world of Math.
I'm Katie, the computer whiz. We will solve problems together!
I am Bob, the foreman of this Math job. Look to me when it is time to Work on a problem.
I am Cavey! I like Math

When you have finished this unit, you should be able to do the objectives.

OBJECTIVES

1. Read and write whole numbers to the millions place.
2. Add, order and compare whole numbers to the millions place.
3. Demonstrate an understanding of addition and subtraction.
4. Use letters to stand for an unknown.
5. Know that equals added to equals are equal.

We will be using these words throughout, the unit. Make sure you remember them and understand what they mean.

VOCABULARY

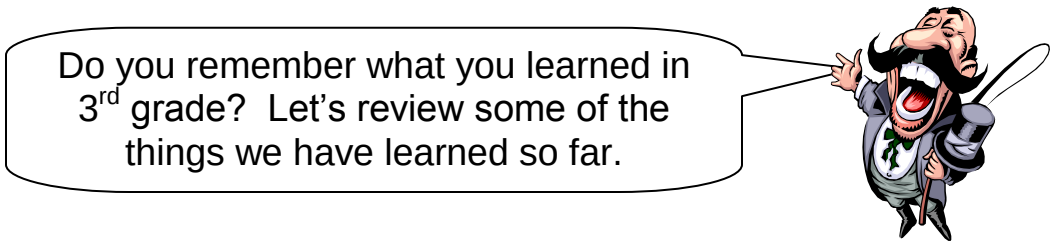
- ***Whole number***- A number denoting one or more whole things or units
- ***Round***- Writing exact numbers as approximate numbers by using place value
- ***Add***- To find the sum of
- ***Subtract***- To take away
- ***Order***- The way one thing follows another
- ***Compare***- To find out or point out how numbers are alike and how they are different
- ***Place Value***- The name for a digit in a number, such as 456. Four is the hundred place, five is the tens place and six is the ones place.

CHARACTER TRAIT

Peaceful: To be calm, quiet and free from conflict and stress!

Chapter 1

Section 1 Practice: Grade 3 Review



Directions: Count by 2's, 3's and 5's. Write your answers below.

1. **2**, 4 ,____,____,____,____,____,____,____,____,____,____,____,____,

   ____,____,____,____,____,____,**40**

2. **3**,____,____,____,____,____,____,____,____,____,____,____,____,____,

   ____,____,____,____,____,____,____,**60**

3. **5**,____,____,____,____,____,____,____,____,____,____,____,____,____,

   ____,____,____,____,____,____,**100**

Write the correct name for the place value in each box.

		,	*Hundreds*		

Directions: Write the digit in the space provided.

4. In the number 485 which digit is in the ones place? _____

5. In the number 1,043 which digit is in the hundreds place? _____

6. In the number Two thousand, seventy-eight, how many thousands are there? _____

7. How many tens are in 841? _____

8. What digit is in the thousands place in 1,265? _____

9. Three thousand, four hundred fifty has how many hundreds? _____

10. What place does 7 represent in 1,007? _____

Directions: Write the symbol <, > or =. (Remember < is less than and > is greater than.)

11.	8 x 10	___	90 x 0
12.	12 x 1	___	30 – 10
13.	6 - 2	___	8 – 4
14.	17 + 10	___	9 + 15
15.	40 + 9	___	12 x 4

Directions: Write the correct answer in the box

16. **3** x ☐ = 9

17. **5** x ☐ = 15

18. **3** x ☐ = 21

19. ☐ x **4** = 12

20. ☐ x **6** = 36

21.

Peaceful: To be _____ quiet and free from conflict and stress!

Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

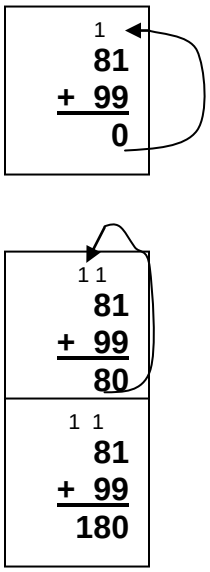
Section 2: Carrying

Remember, when adding numbers together, you must carry to the next place if needed.

Example:

Remember with addition we begin on the right column.

The answer to an addition problem is called the ***Sum***.



Think:
9+1=10. Since we cannot write 10 in the ones place, we carry the 1 to the tens place.

Next, we add the digits in the tens place. ***Think:*** 1+8+9=18, again we must carry the one to the next column or the hundreds place.

Finally, we add the hundreds place, and finish the problem. Think: 1+0+0=1.

Section 2 Practice

Directions: Add (Remember to carry.)

1.
```
  1
 365
+209
----
 574
```

2.
```
 799
+181
----
```

3.
```
1,259
+ 801
------
```

4.
```
 699
+ 242
-----
```

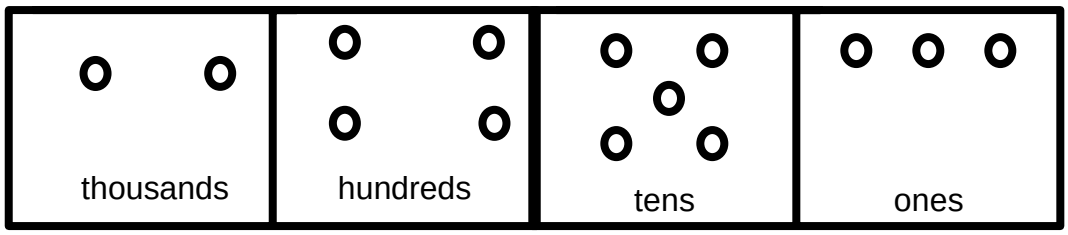
5.
```
2,569
+366
-----
```

Take a minute now and go to the score key.

SCORE: ____ **MAKE CORRECTIONS:** ____ **RE-SCORE:** ____

Section 3: Borrowing

When we subtract two numbers, sometimes we must do something called ***Borrowing****. We must borrow when we are trying to subtract a larger digit from a smaller digit. Let's learn borrowing now.*



This number is written 2,453.

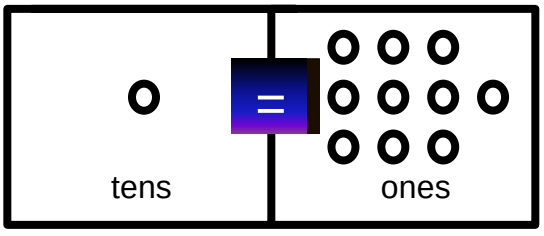
We can also write this number 2,000 + 400 + 50 + 3.

2, 4 5 3 - 1 5

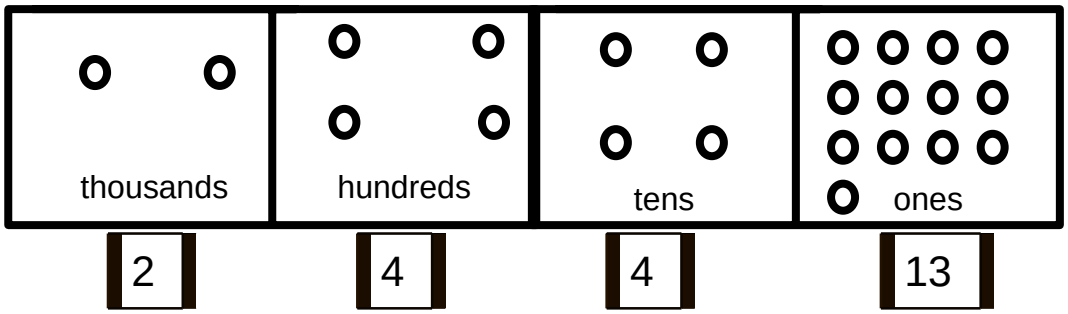
If we need to subtract 15 from 2,453, we would need to borrow.

We start in the ones place. When the ones digit in the 1st number is smaller than the ones digit in the 2nd number, we must borrow from the tens place.

From the picture below, we can see that 1 unit in the tens place is equal to 10 units in the ones place.



So, we can borrow 1 unit from the tens column, and add 10 units to the ones column.




```
    4
     1
2, 4 5 3
-   1 5
```

When we borrow from the tens column, we first draw a line through the digit in the tens column.

We draw a line through the 5, and write a 4 in its place (because we borrowed 1 from the 5). We then write the 1 that we borrowed next to the 3 (making it 13).

```
    4
     1
2, 4 5 3
-   1 5
2, 4 3 8
```

Now we can subtract the ones place. 13 – 5 = 8.

Next we subtract the tens place. Since we borrowed 1 from the 5, we only have 4 left, so we subtract 4 – 1 = 3.

We finish the problem by subtracting the hundreds place, and then the thousands place.

Borrowing is important. When we learn how to borrow, we can subtract any number. It does not matter how large the number is, we know how to subtract it from another number.

Section 3 Practice

Directions: Find the Difference

1.
$$\begin{array}{r} 48 \\ -36 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 63 \\ -46 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 12{,}689 \\ -3{,}588 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 3{,}999 \\ -\ 999 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 569 \\ -286 \\ \hline \end{array}$$

Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

FAST Math!!! (Have someone time you. Complete as many as you can in 60 seconds)

1. 1 +0	**2.** 1 +0	**3.** 5 +4	**4.** 9 +1	**5.** 9 +8
6. 4 +1	**7.** 1 +0	**8.** 5 +0	**9.** 9 +7	**10.** 7 +1
11. 2 +0	**12.** 5 +4	**13.** 7 +2	**14.** 6 +4	**15.** 3 +2
16. 10 + 7	**17.** 4 +2	**18.** 5 +1	**19.** 8 +4	**20.** 5 +3
21. 4 +1	**22.** 4 +3	**23.** 7 +6	**24.** 10 + 8	

Time is up! Now it is time to score your work.

Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

Great Job!! See how many correct you can get next time.

Chapter 1 Review

Directions: Count by threes and enter the numbers in the blanks.

1. _**3**_,____,____,____,_**15**_,____,____,____,____,____,____,____,____,

____,____,____,____,____,____,____,_**60**_

Write the name of each place value in the boxes.

2.	**3.**		**4.**	**5.**	**6.**
		,			

Directions: Write the symbol <, > or =.

7. 7 x 10 ___ 80 x 0

8. 11 x 1 ___ 20 - 10

9. 9 - 2 ___ 8 - 1

10. 3 + 6 ___ 6 + 3

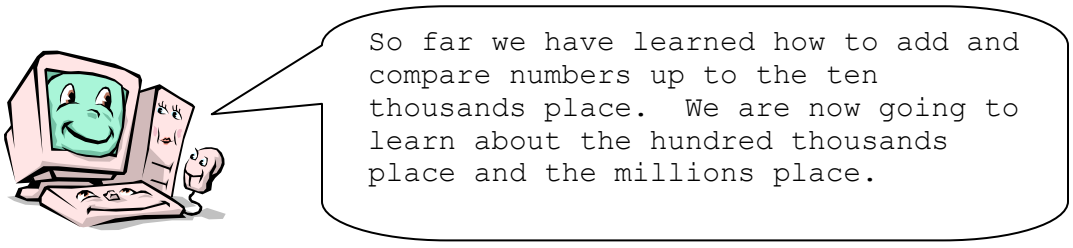
Peaceful: To be _____ _____ and free from conflict and stress!

Take a minute now and go to the score key.

SCORE: ____ **MAKE CORRECTIONS:** ____ **RE-SCORE:** ____

Chapter 2 - Addition of Whole Numbers to the Millions Place

Section 4: Place Value



Let's learn the new place values. First, let's look back at how the digits get their names.

Place Values - Expanded Form

Numbers, such as 5,784, have four digits. Each digit has a different place value.

Let's look at this number beginning on the right side.

The first digit is the ones place, in this example there are **4 ones**.

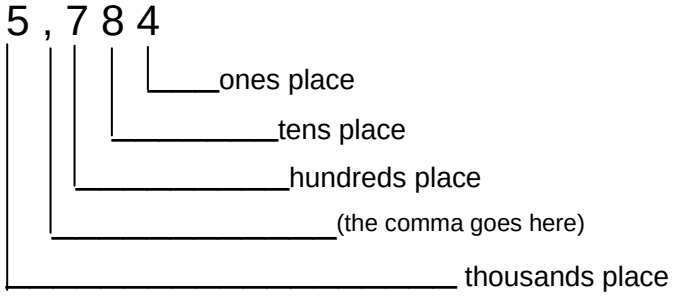
The next digit is the tens place. It tells you that there are **8 tens**.

The next digit is called the hundreds place. It tells you how many sets of one hundred are in the number. The number 5,784 has **7 hundreds**.

Do you see the comma? Remember, starting from the ones place, we place a comma after every three numbers.

The first digit that we read is the fourth digit from the right. It is in the thousands place. It tells us how many sets of one thousand are in the number. The number 5,784 has **5 thousands**.

Here's another way to look at place value.



We read this number, "Five thousand, seven hundred eighty-four."

Did you notice that whether we write out the number in digits or words, we place a comma in the same place?

Now let's look at a six digit number.

Numbers, such as 495,784, have six digits. Each digit is a different place value.
Remember to put a comma after each group of three digits.

495,784

The first digit is called the ***hundred thousands*** place. It tells you how many sets of one hundred thousand are in the number. The number 495,784 has **4 hundred thousands**.

The second digit is the ***ten thousands*** place. In this number there are **9 ten thousands**.

The third digit is the ***thousands*** place. We have **5 thousands** in the number 495,784.

The fourth digit is called the ***hundreds*** place. It tells how many sets of one hundred are in the number. The number 495,784 has **7 hundreds**.

The next digit is the ***tens*** place. This number has are **8 tens**.

The last or right digit is the ***ones*** place. There are **4 ones**.

We can list all of the place values for this number:

4 hundred thousands
9 ten thousands
5 thousands
7 hundreds
8 tens
4 ones

Expanded Form shows these place values expanded into an addition statement.
The expanded form for this number is 400,000 + 90,000 + 5,000 + 700 + 80 + 4.

Section 4 Practice

Directions: Find the expanded forms of the numbers below?

(examples) 45,387 = <u>40,000</u> + <u>5,000</u> + <u>300</u> + <u>80</u> + <u>7</u>
539 = <u>500</u> + <u>30</u> + <u>9</u>
6,004 = <u>6,000</u> + <u>4</u> ***(there are no hundreds and tens, so we don't put them in our expanded form)***

1. 83,421 = _____ + _____ + _____ + _____ + ___

2. 3,521 = _____ + _____ + _____ + _____

3. 388 = _____ + _____ + _____

4. 421,339 = _____ + _____ + _____ + _____ + _____ + ___

5. 50,801 = _____ + _____ + _____

We're ready now to read and write numbers to the millions place. Study the place value chart and examine the number below in digits and words.

5,231,450

Five million, two hundred thirty-one thousand, four hundred fifty.

Remember, starting from the ones place, we place a comma after every three numbers.

Millions	**Hundred Thousands**	Ten Thousands	Thousands	Hundreds	Tens	Ones
5,	2	3	1,	4	5	0

Directions: Write the numbers using words

6. 1,324,234 _____

_____

7. 345,678 _____

_____

8. 6,100,290 _____

_____

9. 9,999,999 _____

_____

10. 3,275,864 _____

_____

11. 7,100,000 _____

_____

12. 9,123,555 _____

_____

13. 100,001 _____

_____

14. 798,377 _____

_____

15. 453,966 _____

_____

Directions: Write the numbers using digits

16. Five million, three hundred thousand, nine hundred thirty-two.

_____

17. Nine million, six hundred ninety-three thousand, eight hundred seventy-one.

_____

18. Four hundred twenty-two thousand, fifteen.

_____

19. Eight million, one hundred eighty-eight thousand, six hundred eighty-eight.

_____

20. One hundred thousand, one.

_____

21. Six hundred sixty-six thousand, six hundred sixty-six.

_____

22. Seven million, four hundred thousand, two hundred.

_____

23. One million, one hundred eleven thousand, one hundred eleven.

_____

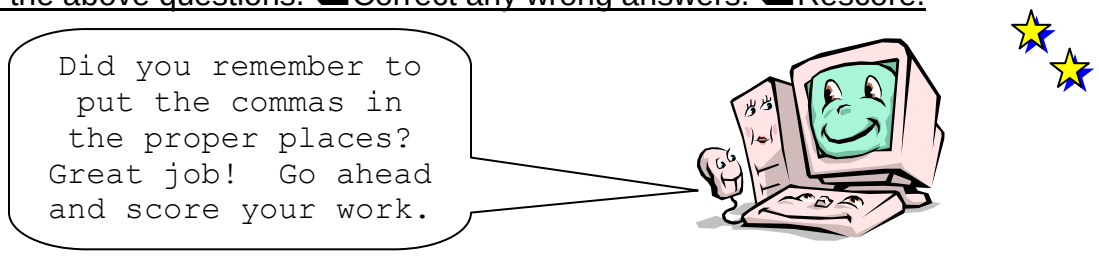
24. Three million, two hundred forty-six thousand, three hundred fifty-eight.

_____

25. Eighty million, nine hundred twenty-three thousand, seven hundred forty-four.

_____

❑Score the above questions. ❑Correct any wrong answers. ❑Rescore.



FAST Math!!! (Have someone time you. Complete as many as you can in 60 seconds.)

1. 1 +1	**2.** 2 +0	**3.** 5 +4	**4.** 7 +1	**5.** 9 +8
6. 4 +1	**7.** 1 +0	**8.** 5 +0	**9.** 9 +7	**10.** 7 +1
11. 2 +0	**12.** 5 +4	**13.** 7 +8	**14.** 6 +4	**15.** 3 +2
16. 10 + 7	**17.** 4 +2	**18.** 5 +1	**19.** 8 +4	**20.** 5 +3
21. 4 +1	**22.** 4 +3	**23.** 7 +6	**24.** 10 + 8	

Time is up! Now it is time to score your work.

Number completed _____ **Number correct** _____

Great Job!! See how many correct you can get next time.

Section 5: Equations

Before we begin, let's review some addition and subtraction basics.

Do you see that the word **EQUATION** is similar to the word **EQUAL**? That's because an equation is a mathematical statement that has an "equals" sign. An equals sign looks like this "=." Sometimes we call these statements ***number sentences***.

An equation must follow this rule:

the expression on the left side = the expression on the right side

*"has the **same** value"*

$$\boxed{2+2} = \boxed{4}$$

this expression has the same value as **this expression**

One of the terms in an equation may not be known. An unknown term can be represented by an empty box or a letter such as x.

$$2 + \square = 4 \quad \textbf{or} \quad 2 + \boldsymbol{x} = 4$$

To solve this equation we must find the value of ***x***.

To find the value of x we can use the ***subtractive equation property***, which says:

> **"The two sides of an equation remain equal if the same number is subtracted from each side."**

We know that this idea is true. We can think about plates of cookies. If two plates contain equal numbers of cookies, then taking the same number of cookies from each plate will still leave two plates with equal numbers of cookies. Let's look at two trays of 9 cookies.

=

If we take two cookies from each tray, the trays remain equal.

 = 

Let's look at the subtractive property with numbers.

5 + x = **12**

this expression has the same value as **this expression**

5 + x - 5 = 12 - 5

if we subtract 5 from this side we will have the same value **if we also subtract 5 from this side.**

Think: (5-5 =0) Think: (12 – 5 = 7)

0 + x = 7
x = 7

Check the answer by substituting the value of x (7) back into the equation.

5 + x = **12**

this expression has the same value as **this expression**

5 + 7 = **12**

x has a value of 7

Section 5 Practice

Directions: Solve for the unknown in these equations.

1. $4 + x = 12$ x = _____

2. $7 + x = 10$ x = _____

3. $15 + x = 21$ x = _____

4. $25 + x = 25$ x = _____

5. $x + 24 = 30$ x = _____

6. $x + 13 = 17$ x = _____

7. $7 + x = 16$ x = _____

8. $x + 9 = 18$ x = _____

9. $15 + x = 25$ x = _____

10. $x + 10 = 40$ x = _____

Check your answers by substituting the value of x back into the equation.

Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

Section 6: Mental Addition with Two Digit Numbers

You can add two digit numbers mentally.

Add 84 and 35.

- First add the digits in the ones place (4 + 5 = 9).
- Since the sum of the ones places is less than ten, you won't need to carry.
- Next add the digits in the tens place (8 + 3 = 11).
- Combine the answers to your addition problems 11 tens + 9 ones
- The answer is 119.

Add 94 and 67.

- First add the digits in the ones place (4 + 7 = 11).
- The sum of the ones places is more than ten so mentally carry the extra tens:
  - keep only the digit in the ones place :

$$4 + 7 = 1\underline{\mathbf{1}} \text{ – keep the } \underline{\mathbf{1}}$$

  - mentally carry this ten to the tens place.

$$4 + 7 = \underline{\mathbf{1}}1$$

- Now add the digits in the tens place

$$(9 + 6 + \underline{\mathbf{1}} = 16).$$

(you mentally carried this ten from the ones place)

- Combine the answers to the addition problems 16 tens + 1 one

- The answer is 161

Section 6 Practice

Directions: Compute the sums mentally.

1. 85 + 42 = _____

2. 44 + 38 = _____

3. 87 + 11 = _____

4. 93 + 28 = _____

5. 17 + 69 = _____

6. 12 + 43 = _____

7. 38 + 83 = _____

8. 44 + 92 = _____

9. 20 + 78 = _____

10. 95 + 11 = _____

Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

Section 7: Adding Three Numbers

It is important to line your numbers up carefully when adding three numbers.

$$45 + 82 + 67 =$$

1. Place the numbers in a column so ones place digits are lined up. Draw a line under the bottom number.

```
  45
  82
+ 67
----
```

2. Add the three ones place digits. (5 + 2 + 7 = 14). You will need to carry 1 ten, so place a **1** above the tens place column and place the **4** below the line in the ones place column.

```
  1
  45
  82
  67
----
  4
```

3. Add the numbers in the tens place column (1 + 4 + 8 + 6 = 19) and place the **19** below the line to the left of the ones place sum.

```
  1
  45
  82
  67
----
 194
```

Section 7 Practice

Directions: Find the sums. Carefully place your numbers in columns and show your work.

1. 47 + 38 + 11_____

2. 32 + 7 + 61_____

3. 44 + 33 + 25_____

4. 82 + 17 + 9_____

5. 55 + 4 + 82_____

6. 73 + 3 + 16_____

7. 11 + 37 + 8_____

8. 29 + 62 + 40_____

9. 53 + 2 + 9_____

10. 92 + 23 + 62_____

Take a minute now and go to the score key.

SCORE: ____ **MAKE CORRECTIONS:** ____ **RE-SCORE:** ____

FAST Math!!! (Have someone time you. Complete as many as you can in 60 seconds)

1. 1 +0	**2.** 1 +4	**3.** 5 +4	**4.** 9 +1	**5.** 9 +8
6. 7 +1	**7.** 1 +0	**8.** 5 +0	**9.** 9 +8	**10.** 7 +1
11. 2 +0	**12.** 5 +4	**13.** 7 +2	**14.** 6 +4	**15.** 3 +2
16. 10 + 7	**17.** 4 +7	**18.** 5 +1	**19.** 8 +3	**20.** 5 +3
21. 4 +1	**22.** 4 +3	**23.** 7 +6	**24.** 10 + 8	

Time is up! Now it is time to score your work.

Number completed _____ **Number correct** _____

Great Job!! See how many correct you can get next time.

Section 8: Addition Equations with Two-Digit Numbers

50 + x = 120

To solve this equation we must find the value of ***x***.
To find the value of x we can use the ***subtractive equation property***, which says:

> **"The two sides of an equation remain equal if the same number is subtracted from each side."**

50 + x = 120

this expression has the same value as **this expression**

50 + x - 50 = 120 - 50

if we subtract 50 from this side we will have the same value **if we also subtract 50 from this side.**

Think: (50-50 =0) Think: (120 – 50 = 70)

0 + x = 70
x = 70

> Check the answer by substituting the value of x (70) back into the equation.

50 + x = 120

this expression has the same value as **this expression**

50 + 70 = 120

x has a value of 70

Section 8 Practice

Directions: Find the unknown in each equation.

1. 40 + x = 120 x = _____

2. 70 + x = 90 x = _____

3. 16 + x = 88 x = _____

4. 20 + x = 65 x = _____

5. x + 80 = 80 x = _____

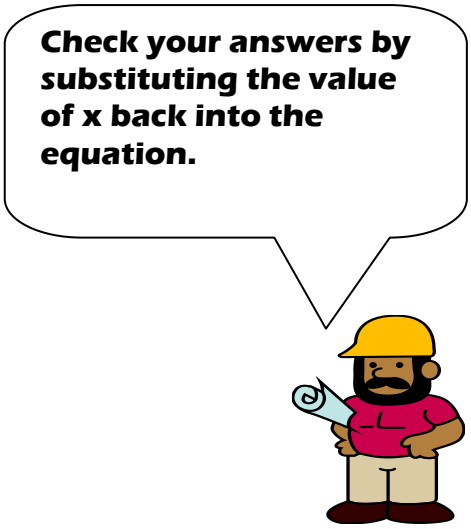
6. x + 10 = 85 x = _____

7. 75 + x = 85 x = _____

8. x + 99 = 100 x = _____

9. 15 + x = 50 x = _____

10. x + 42 = 68 x = _____



Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

Section 9: Adding Three-Digit Numbers

It is important to line your numbers up carefully when adding three-digit numbers.

600 + 500 =

1. Place one number above the other so that the ones are lined up. Draw a line under the bottom number.

```
  600
+ 500
```

2. Add the two ones place digits. (0 + 0 = **0**).

```
  600
+ 500
    0
```

3. Add the numbers in the tens place column (0 + 0 = **0**) and place the answer below the line and to the left of the ones place sum.

```
  600
+ 500
   00
```

4. Add the numbers in the hundreds place column (6 + 5 = **11**) and place the answer below the line and to the left of the ones place sum.

```
  600
+ 500
  1100
```

Adding Three Digit Numbers with Carrying

Sometimes you will need to carry when adding two three-digit numbers

529 + 733 =

1. Place one number above the other so that the hundreds, tens and ones places are lined up in columns. Draw a line under the bottom number.

```
  529
+ 733
-----
```

2. Add the ones place digits (9 + 3 = 12). This number is larger than ten so we must carry. Place a 1 above the tens place column and place the **2** below the line in the ones place column.

```
   1
  529
+ 733
-----
   2
```

3. Add the tens place digits (1 + 2 + 3 = 6) and place the **6** below the line in the tens place column.

```
   1
  529
+ 733
-----
  62
```

4. Add the numbers in the hundreds place column (5 + 7 = 12). This number is larger than ten so we must carry. Place the 1 above the thousands place column. and place the **2** below the line and before the other number below the line.

```
 1 1
  529
+ 733
-----
 262
```

5. The thousands place column only has a 1 in it which should be placed below the line in the thousands place column (**1**).

```
 1  1
  529
+ 733
-----
1, 262
```

Section 9 Practice

Directions: Find the sums. Carefully place your numbers in columns and show your work.

1. 417 + 382 + 101

2. 342 + 97 + 610

3. 474 + 334 + 425

4. 872 + 147 + 94

5. 505 + 204 + 820

6. 273 + 43 + 106

7. 101 + 370 + 58

8. 299 + 962 + 409

9. 653 + 62 + 96

10. 912 + 231 + 162

Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

Section 10: Adding Four-, Five-, and Six-Digit Numbers

Adding multi-digit numbers always involves several steps.

1. Line the numbers up so that digits having the same place value are in columns.

2. Begin by adding the ones place digits and continue working right to left.

3. Whenever you have a sum of more than ten, you must carry a digit to the next place to the left. You may need to carry several times when solving a problem.

4. A comma is placed after every three digits counting from the ones place (count from the right).

Section 10 Practice

Directions: Examine the examples and then find the sums.

324,217 + 1,382 + 101

```
  1 1
324,217
  1,382
+   101
325,701
```

536,342 + 2,907 + 14,610

```
  1 1
536,342
  2,907
+ 14,610
553,859
```

1. 4,174 + 1,334 + 725

2. 872 + 1,147 + 64

3. 52,105 + 322,004 + 1,820

4. 273 + 1,431 + 1,006

5. 2,101 + 5,370 + 758 **6.** 2,199 + 9,462 + 49

Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

Section 11: Addition Equations with Multidigit Numbers

5,000 + x = 5,120

To solve this equation we must find the value of ***x***.

To find the value of x we can use the ***subtractive equation property***, which says:

> **"The two sides of an equation remain equal if the same number is subtracted from each side."**

5,0000 + x = **5,120**

this expression has the same value as **this expression**

5,000 + x – 5,000 = 5,120 – 5,000

if we subtract 5,000 from this side we will have the same value **if we also subtract 5,000 from this side.**

Think: (5,000-5,000 =0) Think: (5,120 – 5,000 = 120)

0 + x = 120

x = 120

> Check the answer by substituting the value of x (120) back into the equation.

5,000 + x = **5,120**

this expression has the same value as **this expression**

5,000 + 120 = **5,120**

x has a value of 120

Section 11 Practice

Directions: Find the unknown in each equation.

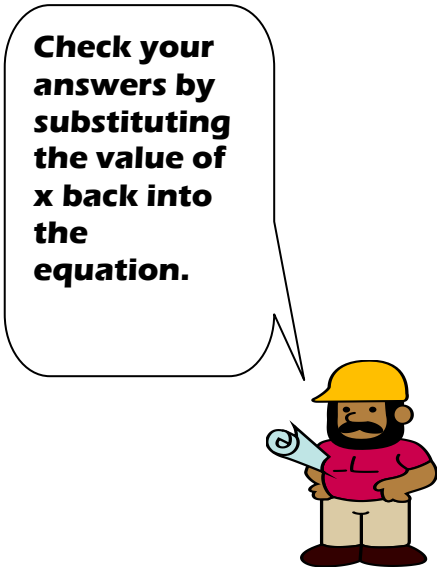
1. 42,000 + x = 52,000 x = _____

2. 7,000 + x = 9,000 x = _____

3. x + 16,100 = 16,200 x = _____

4. 200,000 + x = 400,000 x = _____

5. x + 80,000 = 90,000 x = _____



Directions: Circle the correct answer. Do your work on the right side of the page.

6.
$$\begin{array}{r} 423 \\ +\ 104 \\ \hline \end{array}$$

A. 526
B. 563
C. 427
D. 527

7. 861 + 87 = ?

A. 1,731
B. 8,148
C. 948
D. 848

8.
$$\begin{array}{r} 567 \\ +\ 55 \\ \hline \end{array}$$

A. 622
B. 521
C. 512
D. 612

9. 95 + 21 =

A. 106
B. 116
C. 107
D. 126

10. 52,209 + 487,552 =

A. 439,751
B. 539,761
C. 429,761
D. 529,761

11. 590,562
+215,597

A. 806,159
B. 806,059
C. 705,059
D. 374,965

12. 485,172 + 379,468 =

A. 754,530
B. 873,640
C. 864,640
D. 105,704

13. 8,556,974 + 520,147 =

A. 9,077,021
B. 9,177,111
C. 9,076,011
D. 9,077,121

14. On Friday, the bait and tackle store sold 390 worms. On Saturday, the store sold 634 worms.

What is the total number of worms they sold on Friday and Saturday?

A. 1,024 worms
B. 924 worms
C. 1,113 worms
D. 1,023 worms

15. Darius drove 679 miles to visit his grandmother. Julia drove 998 miles to visit her grandmother.

What is the total number of miles Darius and Julia drove?

A. 1,577 miles
B. 1,567 miles
C. 1,677 miles
D. 567 miles

16. This morning, Suzette went to the beach and collected 439 aluminum cans. This afternoon, she went to the park and collected 298 aluminum cans.

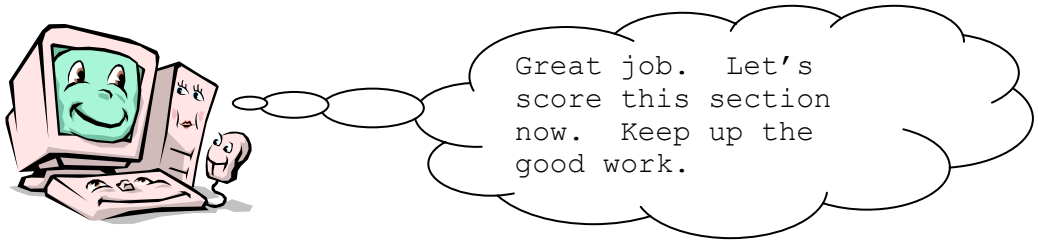
How many aluminum cans did Suzette collect today?

A. 727 aluminum cans
B. 627 aluminum cans
C. 737 aluminum cans
D. 637 aluminum cans

17. Alyssa picked 567 strawberries for jam. Megan picked 893 strawberries.

What is the total number of strawberries they picked?

A. 1,559 strawberries
B. 1,460 strawberries
C. 1,430 strawberries
D. 1,350 strawberries



Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

FAST Math!!! (Have someone time you. Complete as many as you can in 60 seconds)

1. 5 +0	**2.** 9 +0	**3.** 6 +4	**4.** 7 +1	**5.** 5 +8
6. 4 +1	**7.** 1 +0	**8.** 7 +1	**9.** 9 +7	**10.** 10 +1
11. 12 +0	**12.** 6 +4	**13.** 7 +2	**14.** 7 +4	**15.** 3 +2
16. 11 + 7	**17.** 9 +2	**18.** 5 +1	**19.** 8 +4	**20.** 5 +3
21. 4 +1	**22.** 4 +3	**23.** 9 +6	**24.** 10 + 3	

Time is up! Now it is time to score your work.

Number completed _____ **Number correct** _____

Great Job!! See how many correct you can get next time.

Chapter 2 Review

Directions: Write the numbers.

1. 2,326,234 _____

_____

2. 315,668 _____

_____

3. 7,100,270 _____

_____

4. Four million, two hundred thousand, nine hundred thirty-two

_____

5. Nine million, one hundred ninety-three thousand, eight hundred seventy-six.

_____

Directions: Circle the correct answer. Do your work on the right side of the page.

6.
$$\begin{array}{r} 224 \\ +\ 104 \\ \hline \end{array}$$

A. 526
B. 328
C. 427
D. 527

7. 861 + 67 =

A. 1,731
B. 8,148
C. 928
D. 848

8.
$$\begin{array}{r} 557 \\ +\ 55 \\ \hline \end{array}$$

A. 622
B. 521
C. 612
D. 712

9. 93 + 21 =

A. 106
B. 114
C. 107
D. 126

10. 52,207+ 480,552 =

A. 439,751
B. 539,761
C. 429,761
D. 532,759

11.
$$\begin{array}{r} 590{,}562 \\ +215{,}597 \\ \hline \end{array}$$

A. 806,159
B. 806,059
C. 705,059
D. 374,965

12. 400,172 + 300,468 =

A. 700,640
B. 873,640
C. 864,640
D. 105,704

13. 8,556,974 + 520,147 =

A. 9,077,021
B. 9,177,111
C. 9,076,011
D. 9,077,121

14. Peaceful: To be _____, quiet and free from conflict and stress!

15. On Monday, the dress store sold 390 dresses. On Tuesday, the store sold 34 dresses.

What is the total number of dresses they sold on Monday and Tuesday?

A. 449 Dresses
B. 502 Dresses
C. 313 Dresses
D. 424 Dresses

16. Samuel drove 679 miles to visit his grandmother. Julia drove 998 miles to visit her grandmother.

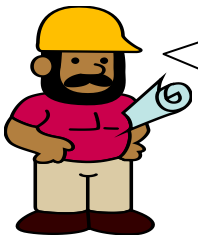
What is the total number of miles Samuel and Julia drove?

A. 1,577 miles
B. 1,567 miles
C. 1,677 miles
D. 567 miles

Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

Chapter 3 – Rounding Numbers



In 3rd Grade, we learned how to round and estimate numbers to the thousands place. Let's review how to round.

When rounding the steps are always the same.

Round 3,487 to the nearest tens place.

1. Place a line under the digit that you are rounding to.
2. Place an arrow over the digit to the right of the digit you are rounding to.
3. Look carefully at the digit with the arrow over it.
    a. If it is less than 5, leave the underlined digit the same
    b. If it is 5 or more, add one to the underlined digit.
4. Change all the numbers to the right of the underlined digit to zeros.

3,4**8**7
Think: 7 > 5.

3,4**9**7
Think: I will change the 8 to a 9.

3,49**0**
Think: I will change the 7 to a 0.

3,487 rounded to the nearest tens place is **3,490**

Directions: Round to the place value indicated.

1. Round 55,387 to the nearest ten thousand _____

2. Round 272 to the nearest ten _____

3. Round 13,201 to the nearest hundred _____

1.
55,387
Think: 7 > 5

2.
272
Think: 2 < 5

3.
13,201
Think: 0 __ 5

4. Round 157,392 to the nearest thousand _____

4. 157,392
Think: 3 __ 5

5. Round 5,852 to the nearest hundred _____

5. 692,334
Think: 9 __ 5

6. Round 157,392 to the nearest ten thousand _____

6. 5,852
Think: 5 __ 5

7. Round 692,334 to the nearest hundred thousand _____

7. 157,392
Think: 7 __ 5

8. Round 6,978 to the nearest thousand _____

8. 6,978
Think: 9 __ 5

9. Round 54,486 to the nearest ten _____

9. 54,486
Think: 6 __ 5

10. Round 711,420 to the nearest hundred thousand _____

10. 711,420
Think: 1 __ 5

Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ ☐

RE-SCORE:

Way to go! Rounding is easy when you understand how to do it. Get ready for the Chapter Review.

FAST Math!!! (Have someone time you. Complete as many as you can in 60 seconds)

1.	**2.**	**3.**	**4.**	**5.**
5 +0	9 +0	6 +4	7 +1	5 +8
6.	**7.**	**8.**	**9.**	**10.**
4 +1	1 +0	7 +1	9 +7	10 +1
11.	**12.**	**13.**	**14.**	**15.**
12 +0	6 +4	7 +2	7 +4	3 +2
16.	**17.**	**18.**	**19.**	**20.**
11 + 7	9 +2	5 +1	8 +4	5 +3
21.	**22.**	**23.**	**24.**	
4 +1	4 +3	9 +6	10 + 3	

Time is up! Now it is time to score your work.

Number completed _____ **Number correct** _____

Great Job!! See how many correct you can get next time.

Chapter 3 Review

(Each question is worth 5 points)

Directions: Read each question carefully and circle the correct answer.

1. What is 37,189 rounded to the nearest thousand?

A. 37,000
B. 37,100
C. 38,000
D. 37,190

2. What is 8,642 rounded to the nearest hundred?

A. 8,000
B. 8,600
C. 8,400
D. 8,340

3. What is 4,592,010 rounded to the nearest hundred thousand?

A. 4,500,000
B. 4,690,000
C. 4,600,000
D. 4,590,000

4. What is 19,632 rounded to the nearest thousand?

A. 18,600
B. 18,700
C. 19,000
D. 20,000

5. What is 14,738 rounded to the nearest thousand?

A. 15,000
B. 14,700
C. 14,000
D. 14,600

6. What is 43,578 rounded to the nearest ten thousand?

A. 44,570
B. 40,000
C. 50,000
D. 44,000

Directions: Circle the digit of the place value that we are rounding to, and round the number. (Circle is worth 5 points, answer is worth 5 points.)

7. Round to the millions place.

1,798,477 _____

8. Round to the thousands place

5,352,567 _____

9. Round to the ten thousands place

5,242,938 _____

10. Round to the hundred thousands place

8,974,098 _____

Directions: Complete the Character Trait definition. (Worth ten points.)

11.

Peaceful: To be _____, _____, and _____ from conflict and stress!

Take a minute now and go to the score key.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

Congratulations!!

Continue on to your Character Trait!

Character Trait – Peaceful

Directions: Look at the pictures and answer the questions.

A

B

Peaceful: To be calm, quiet and free from conflict and stress!

1. Read the definition of peaceful. Which picture looks most peaceful to you?

   _____

2. Why?

_____

_____

_____

Directions: Read the quote and answer the questions.

"We look forward to the time when the power to love will replace the love of power. Then will our world know the blessings of peace."
~William Gladstone~

3. What will cause our world to "*know the blessings of peace?"*

_____

_____

4. What did William Gladstone mean by the love of power?

_____

_____

5. After reading the quote by William Gladstone, how can you help those around you to know peace?

_____

_____

6. Write 50 words or more about how you can be peaceful in your classroom.

_____

_____

_____

_____

_____

_____

_____

_____

_____

Tell your teacher to score this section.

SCORE: ☐ **MAKE CORRECTIONS:** ☐ **RE-SCORE:** ☐

Unit Review

Directions: Circle the correct answer. Do your work on the right side of the page.

1. 423
+ 201

A. 526
B. 624
C. 627
D. 527

2. 661 + 87 = ?

A. 1,731
B. 8,148
C. 948
D. 748

3. 637
+ 55

A. 622
B. 521
C. 512
D. 692

4. 95 + 21 =

A. 106
B. 116
C. 107
D. 126

5. 52,200 + 487,552 =

A. 439,751
B. 539,761
C. 539,752
D. 529,761

6. What is 18,637 rounded to the nearest thousand?

A. 18,600
B. 18,700
C. 19,000
D. 20,000

7. What is 15,609 rounded to the nearest thousand?

A. 15,000
B. 14,700
C. 16,000
D. 14,600

8. What is 4,592,010 rounded to the nearest thousand?

A. 4,500,000
B. 4,690,000
C. 4,600,000
D. 4,592,000

9. 590,562
+215,597

A. 806,159
B. 806,059
C. 705,059
D. 374,965

10. 485,172 + 379,468 =

A. 754,530
B. 873,640
C. 864,640
D. 105,704

11. 8,556,974 + 520,147 =

A. 9,077,021
B. 9,177,111
C. 9,076,011
D. 9,077,121

12. On Saturday, the bait and tackle store sold 356 worms. On Sunday, the store sold 434 worms.

What is the total number of worms they sold on Saturday and Sunday?
A. 790 worms
B. 924 worms
C. 789 worms
D. 890 worms

13. 50,000 + 800 + 1 =

A. 50,801
B. 5,801
C. 58,100
D. 580,000

14. The expanded form for 80,903 is:

A. 80,000 + 900 + 3
B. 8,000 + 900 + 3
C. 80,000 + 9,000 + 300
D. 80,000 + 900 + 30

15. 63 – 46 =

A. 23
B. 109
C. 18
D. 17

16. Darius drove 643 miles to visit his grandmother. Brenda drove 978 miles to visit her grandmother.

What is the total number of miles Darius and Brenda drove?
A. 1,571 miles
B. 1,567 miles
C. 1,621 miles
D. 567 miles

Directions: Express the following numbers in words and digits:

16. four hundred twenty-one thousand, three hundred thirty-nine:

_____

18. sixty-eight thousand, nine hundred two

_____

19. 3,521

_____

20. 405,019

_____

Directions: Solve for the unknown.

21. 7 + x = 16 x = _____ **22.** 18 + x = 20 x = _____

23. 6 + x = 11 x = _____

Directions: Write the symbol <, > or =. (Remember < is less than and > is greater than.)

24. 8 x 10 ___ 90 x 0

25. 12 x 1 ___ 30 - 10

26. 6 - 2 ___ 8 - 4

27. 17 + 10 ___ 9 + 15

Directions: Solve the following number sentences.

28. 55 + 4 + 82

29. 53 + 2 + 9

30. 47 + 38 + 11

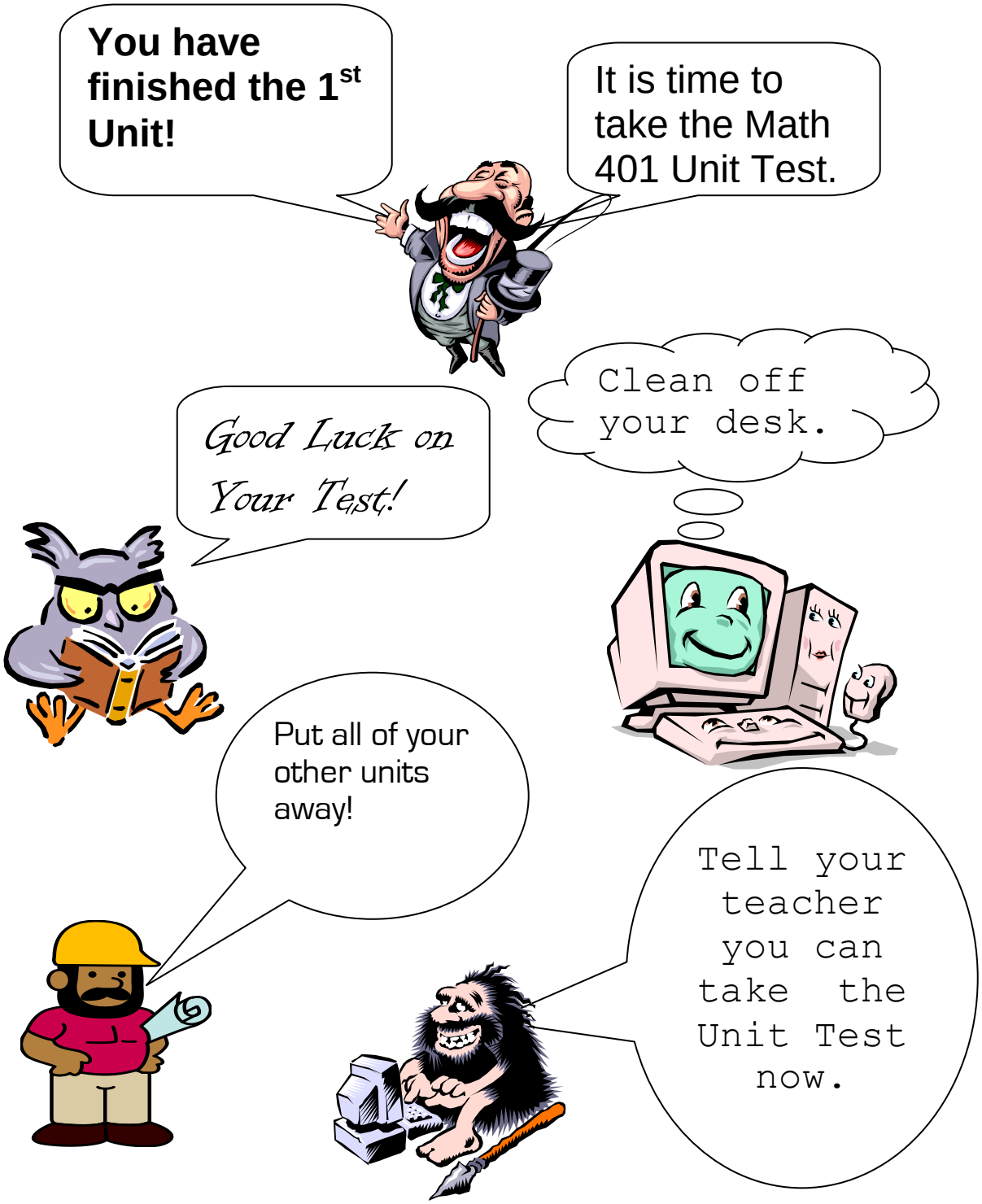
Bonus Point :

Peaceful: ___ ___ _____, _____, and _____ _____ _____ and _____!

Take a minute now and go to the score key.

SCORE: **MAKE CORRECTIONS:** **RE-SCORE:**

Congratulations!



MATHEMATICS 401

TEST

Name: _____

Date: _____

Score: _____

(Each answer is worth 2.5 points)

Directions: Circle the correct answer. Do your work on the right side of the page.

1. 523
+ 104

A. 526
B. 563
C. 627
D. 527

2. 861 + 87 = ?

A. 1,731
B. 8,148
C. 948
D. 848

3. 537
+ 55

A. 592
B. 521
C. 512
D. 612

4. 75 + 21 =

A. 106
B. 116
C. 96
D. 126

5. 52,209 + 377,552 =

A. 439,751
B. 429,761
C. 430,761
D. 529,761

6. What is 4,763,010 rounded to the nearest hundred thousand?

A. 4,500,000

B. 4,690,000
C. 4,800,000
D. 4,590,000

7. What is 18,637 rounded to the nearest hundred?

A. 18,600
B. 18,700
C. 19,000
D. 20,000

6.
7. **8.** What is 14,609 rounded to the nearest thousand?

A. 15,000
B. 14,700
C. 14,000
D. 14,600

9. 530,569
+215,597

A. 746,166
B. 806,056
C. 705,166
D. 374,965

10. 485,172 + 379,468 =

A. 754,530
B. 873,640
C. 864,640
D. 105,704

11. 8,556,974 + 520,147 =

A. 9,077,021
B. 9,177,111
C. 9,076,011
D. 9,077,121

12. On Saturday, the bait and tackle store sold 390 worms. On Sunday, the store sold 634 worms.

What is the total number of worms they sold on Saturday and Sunday?

A. 1,024 worms
B. 924 worms
C. 1,113 worms
D. 1,023 worms

13. Darius drove 679 miles to visit his grandmother. Julia drove 998 miles to visit her grandmother.

What is the total number of miles Darius and Julia drove?

A. 1,577 miles
B. 1,567 miles
C. 1,677 miles
D. 567 miles

Directions: Read each question carefully, and fill in the blank.

14. In the number 485 which digit is in the ones place? _____

15. In the number 1,043 which digit is in the hundreds place? _____

Write the place value name for each location

8. 16.	***9.* 17.**	,	**18.**	**19.**	***10.* 20.**

21. 80 x 1 _____ 90 x 0 (<, >, =)

22. Peaceful: ___ ___ _____, _____, and _____ _____ _____ and _____!

Solve for the unknown

23. 18 + x = 25 x =

24. x + 7 = 30 x =

25. 41 + x = 52 x =

Write the number using words or digits

26. four hundred thirty thousand, five hundred six _____

27. 165,300 _____

28. seventy-eight thousand, sixty-seven _____

---

29. 57,383 _____

Write these numbers in expanded form

30. 450,037 _____

31. 43,211 _____

32. 529 _____

33. 1,204 _____

Solve the following equations

34. 345 – 67 = _____

35. 3,473 – 2,909 = _____

36. 24,932 – 2,897 = _____

37. 61 – 29 = _____

38. 45 + 421 + 65 _____

39. 18 + 54 + 33 _____

40. 39 + 4 + 22 _____