

Math Web Page Lesson Plan

| | | |
|--|---|----------------------------|
| Title: Math Web Page | | Grade Range: 6-7 |
| Integrated Curriculum Area: Math Language Arts | Concepts and Competencies: Fractions, Decimals Audience, Writing | Tool: HTML |
| Summary: Students make math web pages to help other students understand adding and subtracting fractions and decimals. | | |

Warm-up

- Make sure students have completed the EasyTech lesson **Basic HTML: Anchor Tags** and its prerequisites.
- Have a class discussion about different purposes for web pages. How can you tell what the purpose of a web page is? How do you need to adjust your writing style according to the purpose?
- Since websites can be changed, updated, or deleted without notice, please check the websites listed on the activity page before having students use them.

Activity

Students create web pages to educate other students about fractions and decimals:

- Students choose a topic (fractions or decimals) and a title for their web page.
- Students complete the activity page by organizing their ideas, designing each section, and writing the appropriate HTML code.
- Students use a text editor and web browser to create their web page and preview it.

Wrap-up

- Have students share their web pages with the class. Talk about the intended audiences for the web pages. How did students adjust their writing style and design according to purpose and audience?
- Students who wrote about decimals look closely at the web pages of those who wrote about fractions, and vice versa. Did they learn anything new?

Extension

- Teacher asks technology director or technical contact for assistance in posing web pages and associated files to a website.

Name _____

Math Web Page Activity Page

A web page can serve many purposes, including teaching or tutoring people about a topic. You will create a web page helping other students better understand adding and subtracting decimals or fractions. Choose one of the following topics:

- Adding and subtracting decimals
- Adding and subtracting fractions

My topic is: _____

The title for my web page is: _____

The addition section should give information about how to add fractions or decimals, depending on what topic you picked. Include at least four examples of addition problems and some steps to remember when adding.

Heading for this section: _____

Steps for adding:

Examples of addition problems: _____

Now design the first section of your web page using that information. Include the title of your web page and a picture:

Using your drawing as a model, write the content of your addition section with the necessary HTML code to display it correctly.

The subtraction section should give information about how to subtract fractions or decimals, depending on what topic you picked. Include at least four examples of subtraction problems and some steps for subtracting.

Heading for this section: _____

Steps for subtracting:

Examples of subtraction problems: _____

Now design the second section of your web page using that information. Include a picture:

Using your drawing as a model, write the content of your addition section with the necessary HTML code to display it correctly.

Pick two websites to link to that give more information about math topics:

- AAA Math: www.aaamath.com
- Math League: www.mathleague.com
- Math Forum at Drexel: www.mathforum.org

Write the tags that will link to the two sites you picked:

Now use a text editor and browser to create your web page:

- Add the opening and closing HTML and body tags.
- Choose a color (red, green, yellow, orange, purple, brown, cyan, or magenta) and add it as an attribute to the body tag to change the background color.
- Type the HTML code from the activity pages.
- Save the text file and all the image files in the same folder.
- Open the text file with a web browser to preview your web page.
- Check your links and make any necessary changes to your HTML code.

HTML Quick Reference Chart

Tag Format

<name attribute="value"></name>

| | |
|----------------------------------|---|
| <html></html> | Starts and ends an HTML document |
| <body></body> | Starts and ends the main body of the document |
| bgcolor | Sets the background color of the page |
| text | Sets the default text color for the document |
| <p></p> | Divides text in block-type paragraphs |
| align | Sets the paragraph alignment (center, left, right) |
| | Defines the font attributes for the text in between the opening and closing tags |
| size | Sets the size of the font (1 to 7) |
| color | Sets the color of the font |
| | Inserts an image |
| src | Defines the location and filename of the image file |
| <a> | Creates an anchor or link with the text in between the opening and closing tags |
| href | Defines where the browser will go when the link is clicked (# defines an internal link) |
| name | Sets the anchor spot for an internal link |
| | Bolds the text in between the opening and closing tags |
| <i></i> | Italicizes the text in between the opening and closing tags |
| <u></u> | Underlines the text in between the opening and closing tags |

Math Web Page Model

A web page can serve many purposes, including teaching or tutoring people about a topic. You will create a web page helping other students better understand adding and subtracting decimals or fractions. Choose one of the following topics:

- Adding and subtracting decimals
- Adding and subtracting fractions

My topic is: Adding and subtracting whole numbers

The title for my web page is: Alfonso's Math Web Page

The addition section should give information about how to add fractions or decimals, depending on what topic you picked. Include at least four examples of addition problems and some steps to remember when adding.

Heading for this section: Adding Whole Numbers

Steps for adding: _____

1. Line up the numbers according to their place value. _____

2. Add the numbers in the ones column. _____

3. Carry the tens to the next column. _____

4. Keep adding columns and carrying. _____

5. Find the answer. _____

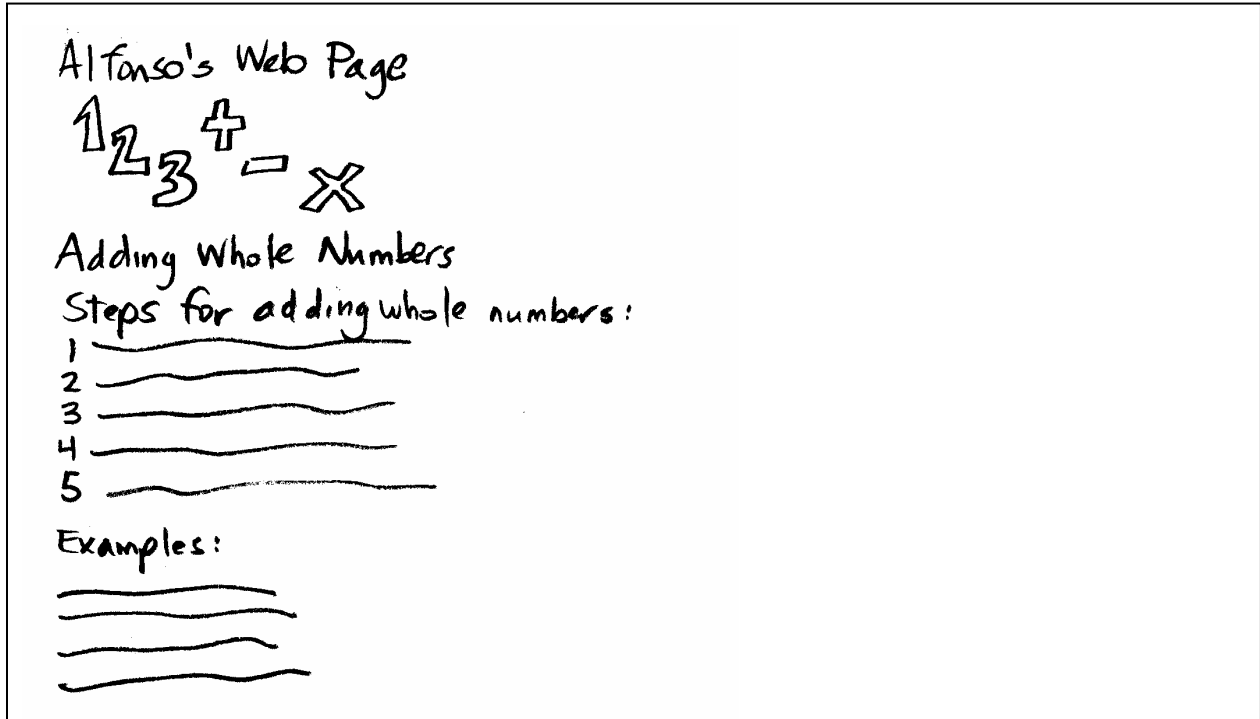
Examples of addition problems: 7 + 8 = 15

37 + 123 = 160

10 + 4 = 14

1253 + 1579 = 2832

Now design the first section of your web page using that information. Include the title of your web page and a picture:



Using your drawing as a model, write the content of your addition section with the necessary HTML code to display it correctly.

`<p>Alfonso's Math Web Page</p>`

``

`<p><i>Adding Whole Numbers</i></p>`

`<p>Steps for adding whole numbers:</p>`

`<p>1. Line up the numbers according to their place value.</p>`

`<p>2. Add the numbers in the ones column.</p>`

`<p>3. Carry the tens to the next column.</p>`

`<p>4. Keep adding columns and carrying.</p>`

`<p>5. Find the answer.</p>`

`<p>Examples:</p>`

`<p>7 + 8 = 15</p>`

`<p>10 + 4 = 14</p>`

`<p>37 + 123 = 160</p>`

`<p>1253 + 1579 = 2832</p>`

The subtraction section should give information about how to subtract fractions or decimals, depending on what topic you picked. Include at least four examples of subtraction problems and some steps for subtracting.

Heading for this section: Subtracting Whole Numbers

Steps for subtracting:

1. Line up the numbers according to their place value.

2. Subtract the numbers in each column.

3. Borrow from the next column if necessary.

4. Find the answer

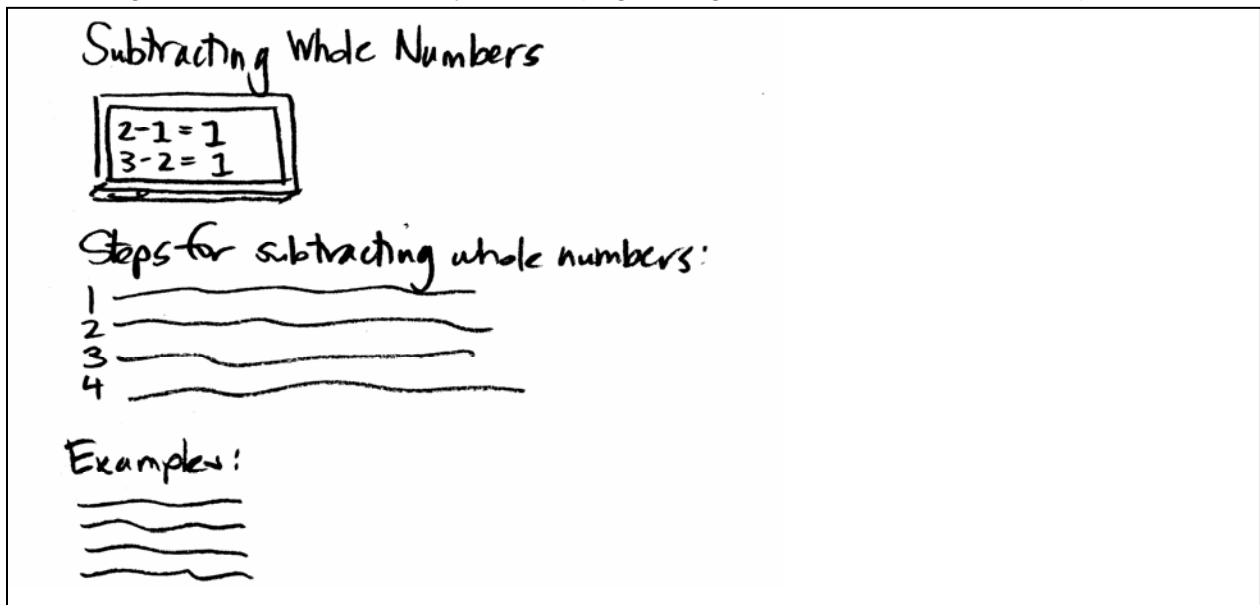
Examples of subtraction problems: $10 - 8 = 2$

$162 - 89 = 73$

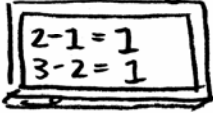
$17 - 8 = 9$

$7986 - 4989 = 2997$

Now design the second section of your web page using that information. Include a picture:



Subtracting Whole Numbers



Steps for subtracting whole numbers:

- 1 _____
- 2 _____
- 3 _____
- 4 _____

Examples:

Using your drawing as a model, write the content of your addition section with the necessary HTML code to display it correctly.

`<p><i>Subtracting Whole Numbers</i></p>`

``

`<p>Steps for subtracting whole numbers:</p>`

`<p>1. Line up the numbers according to their place value.</p>`

`<p>2. Subtract the numbers in each column.</p>`

`<p>3. Borrow from the next column if necessary.</p>`

`<p>4. Find the answer</p>`

`<p>Examples:</p>`

`<p>10 - 8 = 2</p>`

`<p>17 - 8 = 9</p>`

`<p>162 - 89 = 73</p>`

`<p>7986 - 4989 = 2997</p>`

Pick two websites to link to that give more information about math topics:

- AAA Math: www.aaamath.com
- Math League: www.mathleague.com
- Math Forum at Drexel: www.mathforum.org

Write the tags that will link to the two sites you picked:

`AAA Math`

`Math League`

Now use a text editor and browser to create your web page:

- Add the opening and closing HTML and body tags.
- Choose a color (red, green, yellow, orange, purple, brown, cyan, or magenta) and add it as an attribute to the body tag to change the background color.
- Type the HTML code from the activity pages.
- Save the text file and all the image files in the same folder.
- Open the text file with a web browser to preview your web page.
- Check your links and make any necessary changes to your HTML code.

Math Web Page Rubric

Student Evaluation

Activity Page:

- Topic and title are chosen
- Web page planning sheet is complete
- HTML code is used according to instructions
- All HTML tags are closed
- Images are included for each section
- Appropriate language is used for the audience
- Writing is appropriate for a website

Web Page:

- Text editor is used to type the HTML code
- HTML file and image files are saved in the same folder
- Web browser is used to preview the web page

Teacher Evaluation

Activity Page:

- Topic and title are chosen
- Web page planning sheet is complete
- HTML code is used according to instructions
- All HTML tags are closed
- Images are included for each section
- Appropriate language is used for the audience
- Writing is appropriate for a website

Web Page:

- Text editor is used to type the HTML code
- HTML file and image files are saved in the same folder
- Web browser is used to preview the web page