

We

Flip

For Math


Flip Books for Math Topics:

Rounding

Mrs. B's Best

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Mrs. B


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Rounding:

How to Round a Whole Number, How to Round
a Decimal Number & Rounding 9's

The purpose of a 'We Flip for Math' Flip Book, is to provide a struggling student with a step-by-step guide to take them through the process they are struggling with.

I have various flip books available in my classroom (and my Store), but only after I have taught the concept and we have practiced it a number of times. The complexity of some skills can be quite challenging for many students. Being able to remember all the steps can simply become too overwhelming. A flip-book can help 'walk' children through a multiple step mathematical process. In addition, I have found flip-books can be helpful when sending homework home .

I have heard from many parents how much they appreciated having this valuable resource available when working with their child.

This packet contains a 3-in-one flip-book. The first section provides a step-by-step guide for rounding whole numbers. The second section features how to round decimal numbers. A third section models how to round 9's. Ready-made tabs for dividing a 3-in-one flip book is also provided.

This product also includes a 2-sided practice page for practicing the rounding skill. Answer key for the practice page is also included.

To assemble a Flip Book simply run single-sided copies of all pages. Laminate for durability. Cut on the dotted line. Put the pages in sequential order--cover should be on top. Bind or staple (binding works best) across the top! (Pictures of the assembly process are shown on the Proceeding Page)

Mrs. B's Best

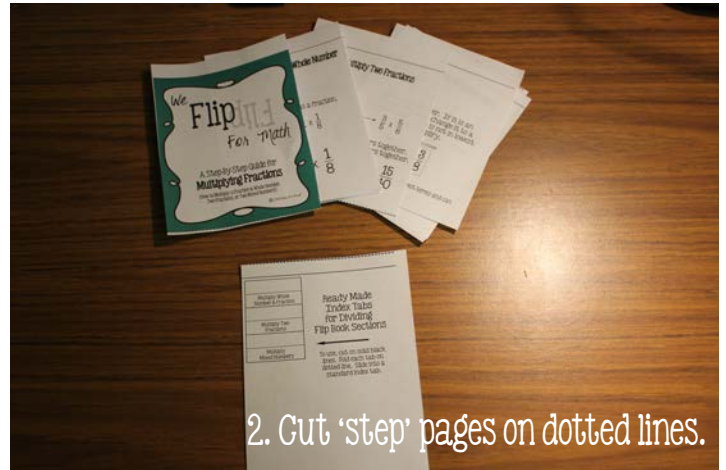
How to Assemble 'We Flip for Math'

Be sure to laminate for durability!

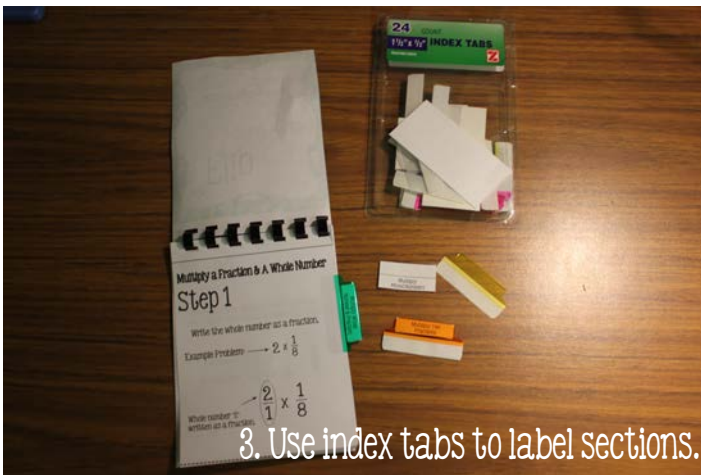
Attach a library checkout pocket/card on the back of the book.
Children can 'check out' book to use with homework.



1. Download product.



2. Cut 'step' pages on dotted lines.



3. Use index tabs to label sections.



4. Assembled product (outside).



5. Assembled product (inside).



6. Visit my TpT Store for more "We Flip" books.

We

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For Math

A Step-By-Step Guide for Rounding Numbers

(How to Round Whole Numbers,
Decimals & Numbers with 9.)

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What is rounding?

Rounding is reducing the digits in a number while trying to keep its value similar. The result is less accurate, but easier to use. Rounding is often used when estimating.

Before you begin...

If the number you are rounding is a whole number, begin at the "Round A Whole Number" tab.

If the number you are rounding is a decimal number, begin at the "Round a Decimal Number" tab.

If the number you are rounding has a 9 as the digit to be rounded, you will be prompted to turn to the "Rounding 9's" tab.

Rounding A Whole Number

Step 1

Identify the digit to be rounded.
Underline the digit.

Example: Round 3,457 to the nearest hundred.

3,457

The number 4 is underlined because it is in the hundreds place.

Step 2

Identify the digit to the right
of the underlined number.
Circle the digit.

3,457

The number 5 is circled because it is **right** next door to the underlined number.

Stop & Check

If the number you are rounding:

- Has a 9 as the underlined digit.
- Has a circled digit that is 5 or larger.

Turn to the "Rounding 9's" tab.

Example: 2,963

Step 3

If the circled number is 4 or less go to Step 4.

If the circled number is 5 or more skip to Step 5.

3,457

The circled number is 5 or more, so for our example we will skip to Step 5.

Step 4

When the circled digit is 4 or less, the underlined digit is left alone. This is sometimes called rounding down.

New Example: Round 2,363 to the nearest ten.

2,363

The number 6 is left alone because 3 is 4 or less.

Skip to Step 6.

Step 5

The circled digit is 5 or more, so the underlined digit is 'rounded up' to the next number.

3,457
↓
3,557

The 4 is rounded up to 5.

Step 6

After the underlined digit is rounded down or rounded up, all the digits to the right of the rounded number are changed to zeros.

Rounded Down
Example: $2,3\underline{6}3 \rightarrow 2,360$

Rounded Up
Example: $3,5\underline{5}7 \rightarrow 3,500$

Final Answers

2,363 rounded to the nearest ten = $\boxed{2,360}$.

3,457 rounded to the nearest hundred = $\boxed{3,500}$.

Rounding A Decimal Number

Step 1

Identify the decimal digit to be rounded. Underline the digit.

Example: Round 2.667 to the nearest tenth.

$2.\underline{6}67$
↑

The number 6 is underlined because it is in the tenths place.

Step 2

Identify the digit to the right of the underlined number.
Circle the digit.

$2.\underline{6}67$
↙

The number 6 is circled because it is **right** next door to the underlined digit.

Stop & Check

If the number you are rounding:

- Has a 9 as the underlined digit.
- Has a circled digit that is 5 or larger.

Turn to the "Rounding 9's" tab.

Example: $2.\underline{9}63$

Step 3

If the circled number is 4 or less skip to Step 4.

If the circled number is 5 or more skip to Step 5.

$2.\underline{6}67$

The circled number is 5 or more, so for our example we will skip to Step 5.

Step 4

The circled digit is 4 or less, so the underlined digit is left alone. This is sometimes called rounding down.

New Example: Round 4.622 to the nearest tenth.

$4.\underline{6}22$

The number 6 is left alone because 2 is 4 or less.

Skip to Step 6.

Step 5

The circled digit is 5 or more, so the underlined digit is 'rounded up' to the next greater number.

$2.\underline{6}67$
 2.767

The 6 is rounded up to 7.

Step 6

After the underlined digit is rounded down or rounded up, all the digits to the right of the rounded number are dropped.

Rounded Down
Example: $4.\underline{6}22 \rightarrow 4.6$

Rounded Up: $2.\underline{7}67 \rightarrow 2.7$

Final Answers

4.622 rounded to the nearest tenth = $\boxed{4.6}$.

2.767 rounded to the nearest ten = $\boxed{2.7}$.

Rounding 9's Step 1

You have underlined the number to be rounded and that number is a 9.

Example: Round 497 to the nearest ten.

$4\underline{9}7$

Example: Round 6.98 to the nearest tenth.

$6.\underline{9}8$

Step 2

You have circled the number to the right of the underlined digit. The circled number is 5 or larger.

$4\underline{9}7$

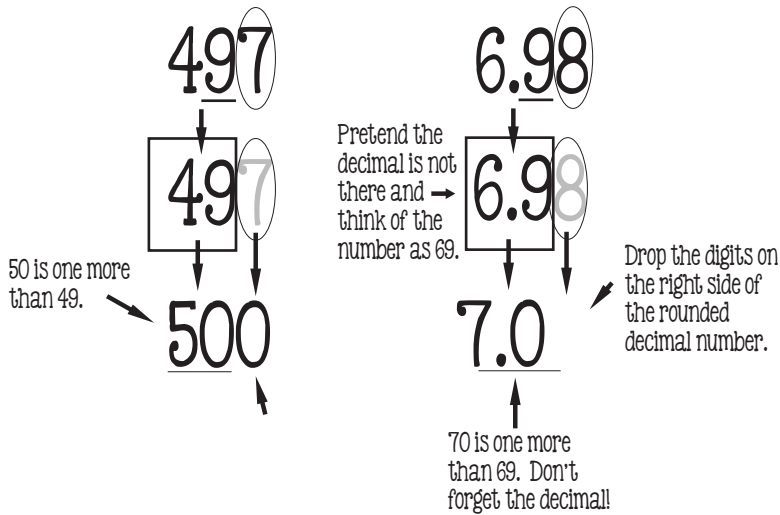
$6.\underline{9}8$

The underlined digit needs to be rounded up, but the underlined digit is a 9. How do I round it up?

Go to Step 3

Step 3

To round up 9, look one more digit to the left. Ask, what number is one more than the two digits.



Final Answers

497 rounded to the nearest ten = $\boxed{500}$.

6.98 rounded to the nearest tenth = $\boxed{7.0}$.

Note: While 7.0 is equal to 7, the correct answer to the question is 7.0.

Since the question asks that the number be rounded to the nearest tenth, there needs to be a digit in the tenths place—even if that digit is a zero.

Use the ready made tabs provided below to divide your flip book into 3 sections.

Rounding A Whole Number
Rounding A Decimal Number
Rounding 9's

Ready Made
Index Tabs
for Dividing
Flip Book Sections



To use, cut on solid black lines. Fold each tab on dotted line. Slide into a standard index tab.

Rounding Practice

Name _____

Date _____

Directions: Round the following numbers to the underlined digit.

1. $\underline{6}$,458 = _____

2. 6. $\underline{7}$ 8 = _____

3. 344 = _____

4. 5,981 = _____

5. 16.64 = _____

6. 3.199 = _____

7. 208 = _____

8. 12,673 = _____

9. 2.23 = _____

10. 13.48 = _____

11. \$126 = _____

12. 10.87 = _____

13. 1,229 = _____

14. 26.5 = _____

15. 8,971 = _____

16. 655 = _____

17. 93 = _____

18. \$895 = _____

19. 74.258 = _____

20. 144 = _____

Rounding Practice

Name _____

Date _____

Directions: Round the following numbers to the nearest hundred.

1. 768 = _____

2. 4,375 = _____

3. 985 = _____

4. 249 = _____

5. 1,375 = _____

6. 19,482 = _____

Directions: Round the following numbers to the nearest tenth.

1. .794 = _____

2. 1.97 = _____

3. 63.421 = _____

4. .097 = _____

5. 2.96 = _____

6. 432.41 = _____

Directions: Round the following numbers to the nearest dollar.

1. \$54.15 = _____

2. \$1.76 = _____

3. \$19.55 = _____

4. \$29.78 = _____

Rounding Practice

Name Answer Key

Date _____

Directions: Round the following numbers to the underlined digit.

1. $\underline{6}$,458 = 6,000

2. 6.78 = 6.8

3. 344 = 340

4. 5,981 = 6,000

5. 16.64 = 16.6

6. 3.199 = 3.2

7. 208 = 200

8. 12,673 = 12,700

9. 2.23 = 2.2

10. 13.48 = 13.5

11. \$126 = \$130

12. 10.87 = 10.9

13. 1,229 = 1,230

14. 26.5 = 30.0

15. 8,971 = 9,000

16. 655 = 700

17. 93 = 90

18. \$895 = \$900

19. 74.258 = 74.3

20. 144 = 140

Rounding Practice

Name Answer Key

Date _____

Directions: Round the following numbers to the nearest hundred.

1. $768 = \underline{800}$

2. $4,375 = \underline{4,400}$

3. $985 = \underline{1,000}$

4. $249 = \underline{200}$

5. $1,375 = \underline{1,400}$

6. $19,482 = \underline{19,500}$

Directions: Round the following numbers to the nearest tenth.

1. $.794 = \underline{.8}$

2. $1.97 = \underline{2.0}$

3. $63.421 = \underline{63.4}$

4. $.097 = \underline{.1}$

5. $2.96 = \underline{3.0}$

6. $432.41 = \underline{432.4}$

Directions: Round the following numbers to the nearest dollar.

1. $\$54.15 = \underline{\$54}$

2. $\$1.76 = \underline{\$2}$

3. $\$19.55 = \underline{\$20}$

4. $\$29.78 = \underline{\$30}$



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Again, thank you for your purchase! I look forward to hearing from you in the future.

Wishing You the Best,

Mrs. B