

Lesson 2: Reviewing Rounding to 10 and 100

Getting Started

✱ Questions to Explore

- What is rounding and when do we use it?
- How do we write and speak in mathematical language?



Facts and Definitions

- **Rounding:** the process of making a number simpler to work with but keeping its value close to the original number

⦿ Skills

- Use place value understanding to round multi-digit whole numbers to any place
- Apply rounding to telling time

✂ Materials

- fine point dry-erase markers (kit)
- geared clock (kit)
- Interactive Notebook
- whiteboard (kit)

Introduction

Write $359+132$ and $360+130$ on the whiteboard, and ask, "Which of the problems can you figure out more quickly in your head and why?" Your child should note that the second problem is easier because the numbers are easier to work with and there's no carrying involved. Now, ask, "Will the answer to $360+130$ be pretty close to the answer to $359+132$?" and "Why is that?" Your child should see that the numbers are close to one another and have been changed only a little bit.

At this point, your child may say that the first numbers have been rounded to the nearest 10. If she doesn't mention this, remind her that **rounding** is the process of making a number simpler to work with but keeping its value close to the original number. Say, "Here, I've rounded the numbers in $359+132$ to the nearest 10 to make this addition problem easier for me. This is a great way to check whether my math is correct when I add the original numbers." Provide time for your child to find and compare the sums on the whiteboard. (491 and 490)

Activities

Activity 1: Rounding Practice

For a quick review of rounding to 10 and 100, provide time for your child to watch the music video at the following web link.



Rounding Numbers Song

www.beyondthepage.com/link/12692/

View more Numberock videos at <https://numberock.com>.

Tell your child to read the "Rounding Round-Up" sheet and then add it to her Interactive Notebook. Explain that this sheet summarizes rounding to 10 and 100 and also shows rounding to the thousands place (which will be covered later in this unit).

Next, provide time for your child to complete the short quiz at the following web link. Allow her to refer to the video or "Rounding Round-Up" sheet as needed.



Rounding Practice

www.beyondthepage.com/link/8232/

Activity 2: Rounding the Time

Say, "In real life, we often round when we talk about time. For example, instead of saying I started doing something at 3:23, I'm more likely to say I started at 3:25 or 3:30." Give your child the geared clock, and ask her to show 5:17 on it. Ask, "What hour is this time closer to, 5 o'clock or 6 o'clock?" (5 o'clock) Say, "You just rounded the original time to the nearest hour."

If your child would benefit from a quick review of quarter times and time to five minutes, ask her to begin at an hour (for example, six o'clock) and move the minute hand around the clock to first show quarter hours and then to show five minute times.

Now, with the geared clock still showing 5:17, pose the following questions, and help your child find the answers as needed:

- What is the time to the nearest quarter hour? (5:15)
- What is the time to the nearest five minutes? (5:15)

Repeat this process with 9:42. Your child should find the following times:

- Nearest hour: 10:00
- Nearest quarter hour: 9:45
- Nearest five minutes: 9:40

Your child will complete the "Rounding the Time" sheet by filling in the blanks provided. Encourage her to use the geared clock as she works, and remind her to read the instructions carefully.

"Rounding the Time" Answer Key



Nearest hour
7:00
Nearest 5 minutes
6:35



Nearest hour
10:00
Nearest 5 minutes
10:10



Nearest quarter hour
7:45
Nearest 5 minutes
7:50



Nearest hour
2:00
Nearest quarter hour
2:15

Wrapping Up

Give your child the "Rounding to 10 and 100" sheet, and tell her to follow the instructions provided. While your child works on this sheet, check her work for this lesson. Look for patterns in items that she missed, and go over them with her, providing time for her to correct her mistakes. Answer key is to the right.

Number	Rounded to 10	Rounded to 100
924	920	900
287	290	300
555	560	600
308	310	300
891	890	900
649	650	600

Answer Key (bottom section)

1. Maria received 242 pieces of candy when she went trick-or-treating. About how many pieces of candy did Maria get? Round to the nearest 10. (240)
2. Jasmine has \$128. About how much money does she have? Round to the nearest 10. (\$130)
3. Which number shows 542 rounded to the nearest hundred? (c. 500)
4. Which number shows 434 rounded to the nearest ten? (b. 430)
5. Challenge question: If you round this number to the nearest ten, you get the same answer as rounding it to the nearest hundred. Which number is it?" (a. 497)

Learning Gates

Have your child take the [Learning Gates quiz](#) for this lesson.

Rounding Round-p

Round to the nearest 100. $\underline{4}87 \rightarrow 500$

Steps to Successful Rounding	example 1	example 2
1. Underline the digit to be rounded.	1, <u>6</u> 73	1, <u>4</u> 32
2. Look at the digit to the right.	Is this 5 or more? (YES)	Is this 5 or more? (NO)
3. Ask: "Is the digit to the right 5 or more?"	1, <u>6</u> 73	1, <u>4</u> 32
4. If the digit to the right is 5 or more, round the underlined digit UP to the next number.	1, ⁷ <u>6</u> 73	
5. If the digit to the right is less than 5, the underlined digit and all other digits to its left remain the same.		stay the same 1, <u>4</u> 32
6. All of the digits to the right of the underlined digit change to 0.	1, <u>7</u> 00	1, <u>4</u> 00

More examples:

Number	Round to 10	Round to 100	Round to 1,000
4,723	4,720	4,700	5,000
989	990	1,000	1,000
56,432	56,430	56,400	56,000



Rounding the Time

Instructions: Round the given times as directed.



Nearest hour

Nearest 5 minutes



Nearest hour

Nearest 5 minutes



Nearest quarter hour

Nearest 5 minutes



Nearest hour

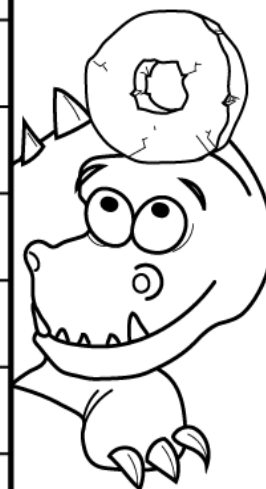
Nearest quarter hour

Rounding to 10 and 100

Instructions: Round the given numbers to the nearest 10 and nearest 100, and write the rounded numbers in the spaces provided.



Number	Rounded to 10	Rounded to 100
924		
287		
555		
308		
891		
649		



Instructions: Solve the following problems.

1. Maria received 242 pieces of candy when she went trick-or-treating. About how many pieces of candy did Maria get? Round to the nearest 10.

2. Jasmine has \$128. About how much money does she have? Round to the nearest 10.

3. Which number shows 542 rounded to the nearest hundred?

- a. 540
- b. 600
- c. 500
- d. 550

4. Which number shows 434 rounded to the nearest ten?

- a. 440
- b. 430
- c. 400
- d. 500

5. Challenge question: If you round this number to the nearest ten, you get the same answer as rounding it to the nearest hundred. Which number is it?"

- a. 497
- b. 992
- c. 609