

1.2 Food for Thought

Focus: rounding money values

Warm Up

1. There are 4 quarters in 1 dollar.

a) Shade $\frac{1}{2}$ of a dollar.



b) How many cents are in $\frac{1}{2}$ of a dollar? _____

2. a) Write the value of the money shown in cents and in dollars.



¢ \$

b) If you use a calculator, what will the display show?

3. You buy items that cost \$3.25, \$0.28, and \$2.15. What is the total cost of these items before tax?

4. Count by 50¢. Use dollar notation.

\$0.00, _____, \$1.00,
\$1.50, \$2.00, _____,
_____ \$3.50, _____,
_____, \$5.00, _____

Skills Practice 2: Place Value and Rounding

- The value of a digit in a number depends on its place in the number.
- The table shows the place value of the digits in the number 123.456.

hundreds	tens	ones	.	tenths	hundredths	thousandths
1	2	3	.	4	5	6

1. Circle the name of the place value of the underlined digit in each number.

- a) 25 tens ones tenths
- b) 145 hundreds tens ones
- c) 12.65 tens tenths hundredths
- d) 6.40 tens tenths hundredths
- e) 0.59 hundreds ones tenths
- f) 3.248 tenths hundredths thousandths

- To round a number, look at the digit to the right of the place value to which you are rounding.
- If the digit is 5 or more, round up.
- If the digit is less than 5, round down.

146 rounded to the nearest ten is 150.

↑ This is the tens place. Since 6 is greater than 5, round the 4 up to 5.

45.23 rounded to the nearest tenth is 45.20.

↑ This is the tenths place. Since 3 is less than 5, the 2 stays the same.

Round up

Add 1 to the number in the place value to which you are rounding. Make the digits to the right of it 0.

Round down

Do not change the number in the place value to which you are rounding. Make the digits to the right of it 0.

2. Underline the tens digit. Round to the nearest ten.

a) 36 b) 162 c) 105

3. Underline the hundreds digit. Round to the nearest hundred.

a) 732 b) 675 c) 1825

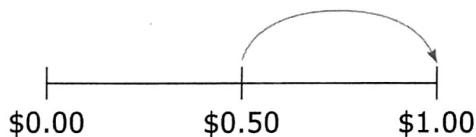
4. Underline the tenths digit. Round to the nearest tenth.

a) 0.37 b) 74.55 c) 15.23

5. Underline the hundredths digit. Round to the nearest hundredth.

a) 1.212 b) 3.427 c) 0.351

- With money, you often round to the nearest dollar.
- If the number of cents is 50¢ or more, round up.



- If the number of cents is less than 50¢, round down.
\$7.35 rounded to the nearest dollar is \$7.00.
\$24.86 rounded to the nearest dollar is \$25.00.

6. Round to the nearest dollar.

a) \$5.48 b) \$2.97 c) \$0.85
d) \$9.99 e) \$1.29 f) \$14.98

Rounding Prices

- Melissa is picking up a few groceries on her way home.
- As she puts items into her shopping cart, she rounds the prices to the nearest dollar.
- Why might Melissa do this?

Remember to record any purchases you make today in your spending journal on page 5.



1. The table lists the items Melissa puts into her basket. Round each price to the nearest dollar.

Item	Price	Price Rounded to Nearest Dollar
a) Canned peaches	\$1.97	
b) Frozen dinner	\$3.97	
c) Bag of oranges	\$2.49	
d) Broccoli	\$0.79	
e) Juice boxes	\$1.19	
f) Orange juice	\$2.99	

2. Melissa discovers that she has only \$10 with her. Circle a group of items in the table that she can afford to buy.
3. You are given \$40 to buy some groceries. As you put items into the cart, how will you decide how many you can buy?

4. Some people estimate how much they spend by first rounding prices to the nearest dollar. Circle 10 foods in a grocery flyer. Write each food and its price in the table. Round each price to the nearest dollar.

Food	Actual Price	Price Rounded to Nearest Dollar
a)		
b)		
c)		
d)		
e)		
f)		
g)		
h)		
i)		
j)		

5. Suppose you put the items from #4 into your cart in the order that you selected them.
- Draw a line across the table when you have spent about \$10.
 - Draw another line across the table when you have spent about \$15.

✓ Check Your Understanding

Explain how to round to the nearest dollar.
