
Subject: Mathematics
Level: Standard Four
Strand: Number
Topic: Decimals

At the end of this worksheet, you will be able to:

- Round decimals to the nearest tenths.

Key Points:

- Consider your place value when rounding decimals to the nearest tenths (**One digit to the right of the decimal point**).
- Look at the next place value to the right (the hundredths).
- If the hundredths digit is **4 or less**, replace the hundredth digit and all other digits to the right of it with 0.
- If the hundredths digit is **5 or more**, add 1 to the digit in the tenths place then replace the hundredth digit and all the other digits to the right of it with 0.
- Write the equivalent number in its simplest form. This means that the **answer will not have any other digits beyond the tenth position**.

Example

Round off the number 8,264.597 to the nearest tenth.

Solution

- Consider your place value.

Whole				&	Parts		
thousands	hundreds	tens	ones	decimal point	tenths	hundredths	thousandths
8,	2	6	4	.	5	9	7

- Look at the next place value to the right (the hundredths).
8,264.597
- The hundredths digit is **5 or more** (9 is more than 5), so we add 1 to the digit in the tenths place then replace the hundredth digit and all the other digits to the right of it with 0.
8,264.**600**
- Write the equivalent number in its simplest form. This means that the **answer will not have any other digits beyond the tenth position.**

8,264.6

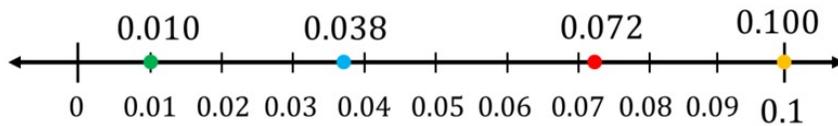
The number 8,264.597 rounded to the nearest tenth is **8,264.6**

ACTIVITY 1

1. Write **23.78** to the nearest **tenths**.

Answer _____

2. Look at the number line below.



What is **0.072** written to the nearest **tenths**?

Answer _____

3. Candice used **1.48** cups of sugar to bake a cake. Round off **1.48** to the nearest **tenths**.

Answer _____

4. Use the following clues together with the table given, to find the correct answer to the riddle below.

Clues:

- I am greater than 0.35.
- If you round me to the nearest whole, I am equal to 3.
- If you round me to the nearest tenth, I round down.
- I have 3 digits.
- I only have one even digit.

3.38	2.71	4.01	3.32
3.1	3.13	2.94	3.24

Which of the number or numbers in the above table can I possibly be?

Answer _____

5. Lucas traveled **4215.18** metres to his grandmother's house. What is **4215.18** to the nearest **tenths**?

Answer _____

ACTIVITY 2

1. What is the number **43,784.321** rounded to the nearest **tenths**?
 - a) 43,784.4
 - b) 43,785
 - c) 43,784.3
 - d) 43,784.32
2. Melanie has a piece of ribbon **15.45 m** long and Demi has a piece **5.30 m** long. What is the total length of both pieces of ribbons written to the nearest **tenths**?

Answer _____

3. Jasmine lives in Plymouth and her best friend Ariel lives in Delaford. The distance between Delaford and Plymouth is **36.10 km**. Express **36.10 km** to the nearest **tenths**.

Answer _____

4. Kim bought **8.5 kg** of cheese. Her sister bought **3.52 kg** of cheese and her mother bought **2.8 kg** of cheese. Express the total weight of the cheese bought, written to the nearest **tenths**.

Answer _____

5. A bag of potatoes weighs 10.65 and a bag of tomatoes 4.6 kg. What is the total weight of both items? Round your answer off to the nearest tenths.

Answer _____

ASSESSMENT

1. Read the following clues together with the table given to obtain the correct answer to the riddle.

Clues:

- If you round me to the nearest whole number, I round up.
- If you round me to the nearest tenth, I round down.
- I have 4 digits.
- I only have one even digit.

14.53	12.78	2.71	5.821
10.37	4.379	19.07	7.711

Which of the numbers from the above table am I?

Answer _____

2. Approximate 3 564.738 to the nearest tenths.

Answer _____

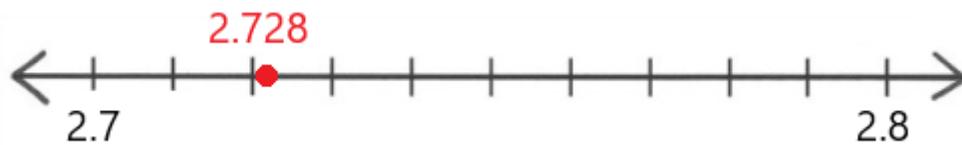
3. Use your understanding of place value to round **894.501** to the nearest **tenths**.

Answer _____

4. Mr. Samaroo has **12.43 kg** of curry and his wife bought **8.31 kg** of curry. How much curry do they have altogether? Express your answer to the nearest tenths.

Answer _____

5. Look at the number line below.



Is 2.728 closer to 2.7 or to 2.8?

Answer _____

ANSWER KEY

ACTIVITY 1

1. **23.8**
2. **0.1**
3. **1.5**
4. **2.71 and 3.32**
5. **4215.2**

ACTIVITY 2

1. (c) **43,784.3**
2. **20.8**
3. **36.1 km**
4. **14.8 kg**
5. **15.3 kg**

ASSESSMENT

1. **14.53**
2. **3 564.7**
3. **894.5**
4. **20.7**
5. **2.7**