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).
  8,264.5**9**7

- 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.**
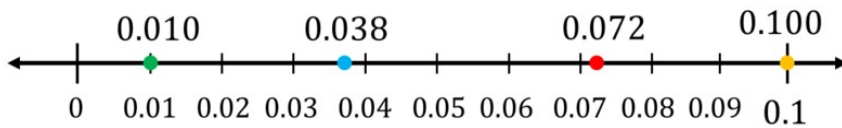
  8,264.6

  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 _____

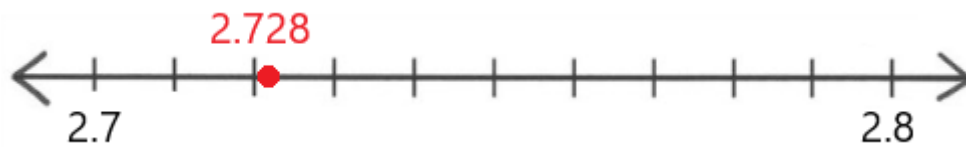2. Approximate 3 564.738 to the nearest tenths.

   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**