5.NBT.A.4 Round Decimals using Place Value

5.NBT.A.4: Use place value understanding to round decimals to any place.

1. Round off each decimal to the place of the red digit.

   a. 7.**8**71   e. 17.**5**36
   b. 13.4**8**5   f. 6.**9**38
   c. **1**.587   g. 71.**6**52
   d. 13.7**0**5   h. 2.**7**12

   Solution:
      a.   e.
      b.   f.
      c.   g.
      d.   h.

2. Round off each decimal to the nearest hundredths.

   a. Seven hundred sixty-seven thousandths
   b. Four and six hundred thirty-four thousandths
   c. 17 + 6.8 + 0.8 + 0.19 + 1.398
   d. 1.8 + 2.165

   Solution:
      a.
      b.
      c.
      d.

3. Use the table to solve the following problems.

   a. Steve had 5 puppies. When Steve and Grace weigh all the puppies, they weigh 65 ounces. How many pounds do all puppies weigh when rounded to the nearest tenths place?
   b. Find what is the total weigh in pounds of 6 metal chairs when rounded the nearest tenth place if all metal chairs weigh 187 ounces?
   c. Grace bought bananas weighing 6 pounds and 3 ounces. How many pounds of bananas did she buy when rounded to the nearest hundredths place?

Ounces	Pounds
1	0.0625
2	0.125
3	0.1875
4	0.25
5	0.3125

   Solution:
      a.   b.   c.

4. Merry rounded 7.645 to 7.64 when rounding to the nearest hundredth's place. Explain her error. Help her round the number to the nearest hundredth and nearest tenth.

   Solution:

5. A bird is flying at height 9.48. The height is rounded to the nearest hundredth's place. What are the possible digits at thousandths place if the digit at hundredth's place is 7?

   Solution:

6. Which number will round to 67.83 when rounded to the nearest hundredth's place?

   Solution:

   a. 67.835   c. 67.824
   b. 67.831   d. 67.820

5.NBT.A.4: Use place value understanding to round decimals to any place.

1.
   a. 7.9
   b. 13.49
   c. 2
   d. 13.71
   e. 17.5
   f. 6.9
   g. 71.7
   h. 2.7
2.
   a. 0.77
   b. 4.63
   c. 26.19
   d. 3.97
3.
   a. 4.1
   b. 11.7
   c. 0.56
4. 7.65 is the correct answer because 1 should be added to the digit at hundredths place if the digit at thousandth's place is 5 or greater.
   7.65; 7.6
5. 5,6,7,8,9
6. B