# Grade 5 Unit 1 worksheet: Rounding decimals

Name _____ Date _____ Period _____

**1.** Round each number to the place named.

(a) 6.38 to the nearest tenth

(b) 15.72 to the nearest whole number

(c) 0.461 to the nearest tenth

(d) 3.149 to the nearest hundredth

(e) 22.05 to the nearest tenth

(f) 8.503 to the nearest whole number

(g) 0.084 to the nearest hundredth

(h) 47.96 to the nearest tenth

**2.** Diego measures a garden hose. It is 3.518 meters long.

(a) Round the length to the nearest tenth.

(b) Round the length to the nearest hundredth.

**3.** A number is written 3. ☐ 7. Its tenths digit is hidden under the box.

Rounded to the nearest whole number, it is 4.

Rounded to the nearest tenth, it is 3.6.

What is the hidden digit? Explain how you know.

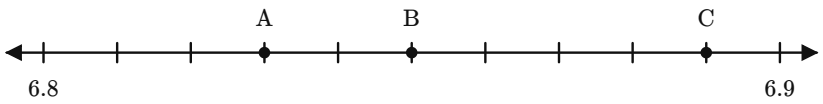
**4.** Two students made mistakes rounding to the nearest tenth.

(a) Sarah rounds 5.97 and writes 5.10. Explain her mistake and give the correct answer.

(b) Ben rounds 3.428. He looks at the last digit, 8, and writes 3.5. Explain his mistake and give the correct answer.


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**5.** The number line runs from 6.8 to 6.9. There is a tick at every hundredth.




(a) Write the number at each point A, B and C.

(b) Round each of the three numbers to the nearest tenth.

**6.** Emma, Jack and Priya each grow a bean plant. They measure the heights in centimeters:

Emma 12.46 Jack 12.54 Priya 12.45

(a) Round each height to the nearest whole number.

(b) Round each height to the nearest tenth.

(c) Jack says, "My plant is 1 centimeter taller than Emma's, because 13 − 12 = 1." Count up by hundredths from Emma's height to Jack's. How much taller is Jack's plant really?

(d) Explain why rounding made the difference look so big.


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