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Lesson 2.2.5 Homework Problems 2-90 to 2-94 BRING YOUR BOOK HOME!

**2-90.** Frieda Friendly works for a local car dealership.  She noticed that https://ebooks.cpm.org/images/cc2/common/3-4.gif of the cars are sedans and that half of them are white.  What fraction of the dealership’s cars are white sedans?

a. Use a unit rectangle to represent this situation.  Label the parts carefully.

b. Write an equation or a sentence that describes the situation, and answer the question.

c. Write your answer from part (b) as a decimal and as a percent.

**2-91.** In parts (a) and (b) of problem 2‑89, the rectangular models for https://ebooks.cpm.org/images/cc2/common/1-2.gif of https://ebooks.cpm.org/images/cc2/common/1-4.gif and https://ebooks.cpm.org/images/cc2/common/1-4.gif of https://ebooks.cpm.org/images/cc2/common/1-2.gif looked different, but the answers were the same.  Read the steps for the example given in the Math Notes box in this lesson for how to calculate https://ebooks.cpm.org/images/cc2/common/2-3.gif of https://ebooks.cpm.org/images/cc2/common/2-5.gif.  Then follow the steps and draw a similar rectangle to show https://ebooks.cpm.org/images/cc2/common/2-5.gif of https://ebooks.cpm.org/images/cc2/common/2-3.gif.  Are the answers the same?  Why or why not?

**2-92.** Simplify each expression.

a. https://ebooks.cpm.org/images/cc2/chap02/cc2_less_chap02_2.2.5_2-92a.gif b. https://ebooks.cpm.org/images/cc2/chap02/cc2_less_chap02_2.2.5_2-92b.gif c. −5.37 + 8.14 − 1.89

**2-93.** Do you think it matters what order you follow when performing math operations?  Investigate this by doing the following problems.

a. For the problem 9 + 2(3) do you get the same final answer if you add first as you do if you multiply first?

b. For the problem (2 · 4) · 7 do you get the same final answer if you start with the first two numbers as you do if you start with the last two numbers?

**2-94.** **Multiple Choice:**Which of the following numbers could not represent a probability?  Write a sentence explaining why they could not.

a. https://ebooks.cpm.org/images/cc2/chap02/cc2_less_chap02_2.2.5_2-94a.gif b. 1 c. 1% d. 0.1