Worksheet: Significant Digits, Part 3   Name_____

This is a self-grading worksheet; the answers are at the bottom.
Fold the bottom up along the dotted line to cover the answers until you complete it.

A. In the blank at the left, state the number of significant digits. At the right, state the measurement in a different notation (scientific or decimal) for practice. Make sure to keep the number of significant digits the same in each notation.

1. _____ 1.2×10^5 _____   5. _____ 5020.00 _____
2. _____ 780,0$\bar{0}$0 _____   6. _____ 600   _____
3. _____ 0.000101 _____   7. _____ 0.48992 _____
4. _____ 3.084×10^7 _____   8. _____ 8.00×10^{-3}_____

B. Round these numbers to 2 significant digits:

1. 7.19×10^{-2} _____   4. 455,000   _____
2. 0.0000435002   _____   5. 6040   _____
3. 8.99×10^4 _____   6. 0.265   _____

C. Calculate and round your answer to the correct number of digits. You can express your answer in decimal or scientific notation as long as the number of digits is correct.

1. $3.2 \times 4.0 \times 12.399$ _____   4. $\dfrac{1.000 \times 10^{-6}}{0.1000}$ _____
2. $\dfrac{(2.0 \times 10^2)(3.214 \times 10^{-7})}{546.88}$ _____   ___

5. $5020 + 17.0 + 4\bar{0}0$ _____

3. $\dfrac{7000 \times 0.00230 \times 12.0}{17400 \times 0.030}$ _____   6. $800.0 + 62.050 - 700$

- -
___