

REMINDER: The first draft of your term paper is due on October 29. You're expected to hand in at least 10 pages (double spaced) and they should be polished enough so one of your peers can give you meaningful feedback.

(1) Compute the following products. Sketch a picture that helps you get the answer.

(a) 423×265

(b) $\frac{1}{2} \heartsuit \Delta \times \heartsuit \star$

(2) Find the missing digits for the multiplication problems below. Explain clearly how you got each number and why your answer is the only one possible. (No credit for answers without explanation...)

$$\begin{array}{r} 4 3 \\ \times \\ \hline \\ \\ \hline \\ \\ \hline 4 \end{array}$$

$$\begin{array}{r} 9 3 2 \\ \times \\ \hline \\ \\ \hline \\ \\ \hline 5 6 \end{array}$$

(3) Solve the following division problems, e.g., by relaxed repeated subtraction. Show your steps.

(a) $784 \div 13$

(b) $\star \heartsuit \heartsuit \div \Delta$

(4) Fran gave Jan half of her cookies. Then she gave Jan a bonus half-cookie. Now Fran has seven cookies left. How many cookies did Jan get? Show me how you can check your answer is correct.

(5) Make up two different real-life problems that you solve using division. At least one should be a problem where students will have to compute a remainder. For each one, include a correct answer, if appropriate with units, and show how you would explain the solution to your students.