

Computing Remainders

Solve. Explain your answer.

Reasoning

1. A computer printer prints 68 lines on each page. How many sheets of paper will you need to print a report that is 4,592 lines long?

2. How many lines will be on the last sheet of paper?

3. Carla buys a computer for \$1,158 and a printer for \$239. She pays the store at a rate of \$79 per month. How long will it take her to pay off the entire amount?

4. How much will Carla's last payment be?

5. The ink cartridge for Carla's printer is supposed to last for 2 million characters. Carla counts the characters on several of the pages she prints and finds that the pages have an average of 2,078 characters. Carla divides 2,000,000 by 2,078 on her calculator and gets 962.4639. Circle the letter of the most reasonable conclusion Carla can draw. Explain.

- A** The cartridge will run out of ink as Carla is printing the 963rd page.
B The cartridge will run out of ink about halfway through the last page.
C The cartridge will last about as long as a 1,000-sheet package of paper.
