Name $\qquad$ Date $\qquad$

1. Estimate the product first. Solve by using the standard algorithm. Use your estimate to check the reasonableness of the product.

| a. $312 \times 149$ $\begin{aligned} & \approx 300 \times 100 \\ & =30,000 \end{aligned}$ $312$ $\begin{array}{r} \times 149 \\ \hline \end{array}$ | b. $743 \times 295$ | c. $428 \times 637$ |
| :---: | :---: | :---: |
| d. $691 \times 305$ | e. $4,208 \times 606$ | f. $3,068 \times 523$ |
| g. $430 \times 3,064$ | h. $3,007 \times 502$ | i. $254 \times 6,104$ |

2. When multiplying 1,729 times 308 , Clayton got a product of 53,253 . Without calculating, does his product seem reasonable? Explain your thinking.
3. A publisher prints 1,912 copies of a book in each print run. If they print 305 runs, the manager wants to know about how many books will be printed. What is a reasonable estimate?
