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

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|a. $312 \times 149$ & b. $743 \times 295$ & c. $428 \times 637$
|   | $\approx 300 \times 100$ & $\approx 700 \times 300$
|   | $= 30,000$ & $= 210,000$
|   | $\times 149$ & $\div 3,715$
|   | $280,080$ & $6,687,000$
|   | $12,480$ & $114,800$
|   | $+31,200$ & $+2,194,850$
|   | $401,880$ & $41,680,000$

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|d. $691 \times 305$ & e. $4,208 \times 806$ & f. $3,068 \times 523$
|   |   |
|g. $430 \times 3,064$ & h. $3,007 \times 502$ & i. $254 \times 6,104$

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?

\[\text{book} \begin{array}{c} 1,912 \\ \hline 305 \text{ runs} \end{array} \]

\[1912 \times 305 \approx 2,000 \times 300 = 600,000\]

They printed about 600,000 books.