a. 312 × 149

c. 428×637

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

b. 743 × 295

≈ 300 × 100 = 30,000 3 1 2 × 1 4 9		
d. 691 × 305	e. 4,208 × 606	f. 3,068 × 523
g. 430 × 3,064	h. 3,007 × 502	i. 254 × 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?

Answer Key

- 1. a. 46,488
 - b. 210,000; 219,185
 - c. 240,000; 272,636
 - d. 210,000; 210,755
 - e. 2,520,000; 2,550,048
 - f. 1,500,000; 1,604,564
 - g. 1,200,000; 1,317,520
 - h. 1,500,000; 1,509,514
 - i. 1,800,000; 1,550,416
- 2. No; answers will vary.
- 3. 600,000; answers will vary.