Name _____ Date _____

1. Round the factors to estimate the products.

   a. 697 × 82 ≈ 700 × 80 = 56,000

   A reasonable estimate for 697 × 82 is 56,000.

   b. 5,897 × 67 ≈ 6,000 × 70 = 420,000

   A reasonable estimate for 5,897 × 67 is 420,000.

   c. 8,840 × 45 ≈ _____ × _____ = _____

   A reasonable estimate for 8,840 × 45 is _____.

2. Complete the table using your understanding of place value and knowledge of rounding to estimate the product.

Expressions	Rounded Factors	Estimate
a. 3,409 × 73	3,000 × 70	210,000
b. 82,290 × 240		
c. 9,832 × 39		
d. 98 tens × 36 tens		
e. 893 hundreds × 85 tens		

3. The estimated answer to a multiplication problem is 800,000. Which of the following expressions could result in this answer? Explain how you know.

8,146 × 12
8,000 × 10
too small

81,467 × 121
80,000 × 100
too large

8,146 × 121
8,000 × 100

81,477 × 1,217
80,000 × 1,000
too large

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4. Fill in the blank with the missing estimate.

   a. $751 \times 34 \approx$ 800 × 30 = 24,000

   b. $627 \times 674 \approx$ _____ × _____ = 420,000

   c. $7{,}939 \times 541 \approx$ _____ × _____ = 4,000,000

5. In a single season, the New York Yankees sell an average of 42,362 tickets for each of their 81 home games. About how many tickets do they sell for an entire season of home games?

Sample:

42,362 × 81 ≈
42,000 × 80 = 3,360,000

They sell about 3,360,000 tickets.

1
42
× 8
336

6. Raphael wants to buy a new car.

   a. He needs a down payment of $3,000. If he saves $340 each month, about how many months will it take him to save the down payment?

   b. His new car payment will be $288 each month for five years. What is the total of these payments?

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