

## Operations with Large Numbers

### A. Fill in the Blanks.

1. In the number 81,456,902, the digit 4 is in the \_\_\_\_\_ place.
2. The answer to a division problem is called the \_\_\_\_\_.
3. In the expression  $50,000 + 10,000 \times 4$ , the \_\_\_\_\_ operation must be performed first.
4. One billion is equal to one \_\_\_\_\_ million.
5. The product of 125,000 and 1,000 is \_\_\_\_\_.

### B. Match the expression in Column A with its correct result in Column B.

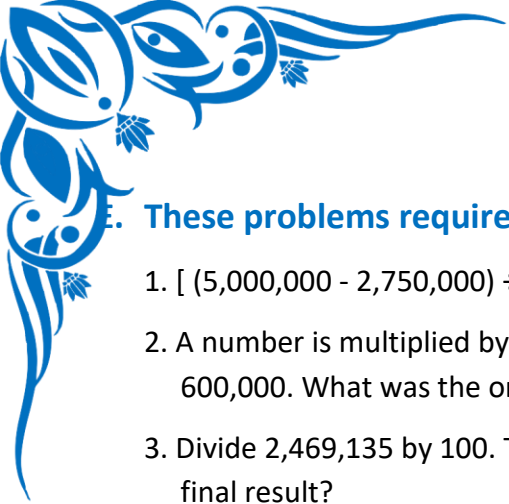
Column A	Column B
1. $2,000,000 \div 500$	A. 1,000,001
2. $999,999 + 2$	B. 4,000
3. $50,000 \times 40$	C. 2,000,000
4. $10,000,000 - 9,999,000$	D. 1,000
5. $(1,000,000 + 500,000) \div 1,000$	E. 1,500

### C. Show your work. Use the space below each question.

1.  $5,834,109 + 3,987,654 =$  \_\_\_\_\_
2.  $8,005,000 - 2,134,876 =$  \_\_\_\_\_
3.  $7,458 \times 62 =$  \_\_\_\_\_
4.  $912 \times 345 =$  \_\_\_\_\_
5.  $85,932 \div 21 =$  \_\_\_\_\_

### D. Get your brain working with these quick calculations.

1.  $150,000 + 250,000 =$  \_\_\_\_\_
2.  $2,000,000 - 500,000 =$  \_\_\_\_\_
3.  $8,000 \times 300 =$  \_\_\_\_\_
4.  $7,200,000 \div 90 =$  \_\_\_\_\_
5.  $10,000 + (500 \times 10) =$  \_\_\_\_\_



**E. These problems require multiple steps and careful thinking. Show your work.**

1.  $[(5,000,000 - 2,750,000) \div 90] \times (45 - 15) =$  \_\_\_\_\_
2. A number is multiplied by 25, and then 150,000 is subtracted from the result, giving a final answer of 600,000. What was the original number?
3. Divide 2,469,135 by 100. Take the whole number quotient and multiply it by the remainder. What is the final result?
4. Estimate the product of 8,972 and 504 by rounding each number to its highest place value. Then, find the exact product. What is the difference between your estimate and the exact answer?
5.  $10,000,000 - (45,000 \times 20 + 3,600,000 \div 60)$  \_\_\_\_\_

**F. Apply your skills to real-world scenarios. Show your work and include units in your answer**

1. The population of Country A is 45,789,123 and the population of Country B is 38,995,478. What is the total population of both countries? How many more people live in Country A than in Country B?
2. A company has an annual budget of 15,000,000. They spend 15,000,000. They spend 8,450,000 on employee salaries and \$2,175,500 on equipment. How much money is left in the budget?
3. A factory can produce 1,250 cars per day. If the factory operates for 312 days in a year, how many cars does it produce in a year?
4. A lottery prize of \$22,950,000 is to be shared equally among 45 winners. How much money does each winner receive?
5. A cargo ship travels a total distance of 12,450 kilometers. It travels 4,180 km in the first week and 5,995 km in the second week. How many kilometers does the ship have left to travel?

**G. True or False**

1.  $500,000 + 10,000 \times 5 = 2,550,000$  \_\_\_\_\_
2.  $4,000,000 - 1,500,000$  is the same as  $1,500,000 - 4,000,000$ . \_\_\_\_\_
3. To multiply 7,800 by 100, you just add two zeros to the end, resulting in 780,000. \_\_\_\_\_
4. The number 5,879,000 rounded to the nearest million is 5,000,000. \_\_\_\_\_
5. There are one hundred thousands in one million. \_\_\_\_\_