

- Use digits to write the number five hundred twenty-five million, eight hundred eighty-two thousand, sixty-two. **525 882 062**
- The following number is written in expanded form. Write it in standard form. **4 007 102 996**
$$4 \cdot 1000\,000\,000 + 7 \cdot 1\,000\,000 + 1 \cdot 100\,000 + 2 \cdot 1000 + 9 \cdot 100 + 9 \cdot 10 + 6 \cdot 1$$
- Round 127,095,752 to the nearest thousand. **127 096 000**
- Find the average of 2, 5, 13, 4, and -19 . **1**
- Consider the numbers 725, 444, 404040, 123456, 2727
 - Find all numbers from the list that are divisible by 2. **725, 444, 404040, 123456**
 - Find all numbers from the list that are divisible by 3. **444, 404040, 123456, 2727**
 - Find all numbers from the list that are divisible by 6. **444, 404040, 123456**
- Find the sum of all prime numbers between 40 and 50. **131**
- List all the factors of 136. **1, 2, 4, 8, 17, 34, 68, 136**
- Use the prime factorization method to find the least common multiple of 210 and 96. **3360**
- A, B, and C work together and make \$ 30 000. They will split the money into six equal shares. A will take three shares, B will take two shares, and C will take one share. How much money does A, B, and C take home? **A takes \$ 15 000, B takes \$ 10 000, and C takes \$ 5 000.**
- Perform each of the following operations. Show all steps.
 - $-4 + 2 + (-12) + 7 =$ **-7**
 - $12 - |6 + (-11)| + |11 + (-6)| - |2^3 + (-11)| =$ **9**
 - $-3 + (-3 + 7) + [(17 - 9) - 3] =$ **6**
 - $|4 - 2| + |2 + (-4)| - |(-5) + 3| + |2| + |-2| =$ **6**
- Let $x = 3$, $y = 4$, and $z = -1$. Evaluate each of the following expressions.
 - $y^2 + (x + z)^2 - 2 - 2(x - z) + (x + z) =$ **12**
 - $2y + 3(x + y) + z + y + 1 =$ **33**
 - $(x + y + z)^2 =$ **36**
 - $x^2 + y^2 + z^2 =$ **26**
- Solve each of the following equations. Make sure to check your solutions.
 - $2x = 14$ **7**
 - $a + 3 = 5$ **2**
 - $y \div 7 = 7$ **49**
 - $z - 98 = 3$ **101**
- Is the number 5 a solution of the equation $2x^3 + 10 = 9x^2 + 7x$? **yes, since LHS = RHS = 260**