

1. Use digits to write the number thirty one billion, seven hundred six million, six hundred twenty.
2. The following number is written in expanded form. Write it in standard form

$$3 \cdot 10,000,000 + 2 \cdot 1,000,000 + 7 \cdot 10,000 + 7 \cdot 1,000 + 8 \cdot 10 + 3 \cdot 1$$

3. Round 1286 963 to the nearest hundred.
4. Round 1286 963 to the nearest hundred thousand.
5. The sides of a rectangle are 10 in and 13 in long.
 - (a) Find the perimeter of the rectangle.
 - (b) Find the perimeter and area of the rectangle.
6. Consider the following numbers: 628, 57 614, 123 456, 888, 24 000, and 625.
 - (a) Use the rule of divisibility by 2 to find all numbers from the list that are divisible by 2.
 - (b) Use the rule of divisibility by 3 to find all numbers from the list that are divisible by 3.
 - (c) Use the rule of divisibility by 5 to find all numbers from the list that are divisible by 5.
7. Find the sum of the five smallest prime numbers.
8. List all the factors of 36.
9. The following numbers are all primes except for one. Which number listed is NOT a prime?

$$2, 71, 101, 417, 2003$$

10. Find the prime factorization for 1800.
11. Use the prime factorization method to find the least common multiple of 80 and 120.
12. Perform the following divisions. Express your answer by giving the quotient and the remainder. For example, $17 \div 5 = 3 \text{ R } 2$

- (a) $312312 \div 23 =$

- (b) $132000 \div 26 =$

13. Perform the following operations. Show all steps.

- (a) $5^2 + 3 \cdot 2^2 \div 3 - 3^2 =$

- (b) $5 \cdot (50 - 3 \cdot (4 \cdot (2 \cdot 3 + 1) - 12) + 3) =$

- (c) $75 \div (2^4 - 1^4) \cdot 4^2 + 3^1 \cdot 2^3 =$

- (d) $\frac{2 \cdot 5^2 - 3 \cdot (2^3 - 2)}{24 \div 6 + 6 - 3 \cdot (5 - 3)} =$

(e) $5 \cdot 2^3 - 2 \cdot 4^2 + 25 - 7 \cdot 3 =$

(f) $\frac{(3^2 - 12 \div 4)^2 + 5^2 - 1}{2^5 - 2 \cdot (2^4 - 3 \cdot 5)} =$

14. A, B, and C worked together for a week. Together they earned \$1500. They split the earnings to ten equal shares. A took four shares, B and C took three shares each. How much money did they each take?