

1. Use digits to write the number ninety billion, twenty-nine million, seven hundred ninety-eight thousand, thirty-nine.
2. The following number is written in expanded form. Write it in standard form.
$$3 \cdot 100\,000\,000 + 5 \cdot 1\,000\,000 + 4 \cdot 10\,000 + 4 \cdot 1\,000 + 9 \cdot 10 + 5 \cdot 1$$
3. Round 218 747 to the nearest
 - (a) hundred
 - (b) thousand
 - (c) hundred thousand
4. The sides of a rectangle are 73 ft and 12 ft long.
 - (a) Find the perimeter of the rectangle. Include units in your answer.
 - (b) Find the area of the rectangle. Include units in your answer.
5. Consider the following numbers: 202 020, 24 680, 2 008, 444, 1 296, 2 160
 - (a) Find all numbers from the list that are divisible by 4.
 - (b) Find all numbers from the list that are divisible by 5.
 - (c) Find all numbers from the list that are divisible by 20.
 - (d) Find all numbers from the list that are divisible by 3.
 - (e) Find all numbers from the list that are divisible by 60.
6. List all factors of 110.
7. Find the least common multiple of 120 and 220.
8. Find the average of -3 , 15 , -41 , -29 , 33 , and 73 .
9. Perform the indicated operations. Show all steps..
 - (a) $2 + (-3) - 5 - (-10) =$
 - (b) $-7 + (-3) - (-1) + 5 =$
 - (c) $3 - 8 - (3 - 8) - |3 - 8| =$
 - (d) $|1 - 2| - |-5| + (-5) - |-3 - (-7)| =$
 - (e) $|2 + (-3)| + |-2 + 7| - (-1) =$
10. Let $a = 4$, $b = 2$, and $c = -2$. Evaluate each the following expressions.
 - (a) $ab + c - a^2 - (3b + c) =$
 - (b) $3(b - c) =$

(c) $3b - c =$

(d) $(a - c)^2 =$

(e) $|a - 3 + c| + |b| - 5a + a^2 =$

(f) $-|3a - 20| =$

(g) $a^2 + b^2 - (a + b)^2 + c + 1 =$

11. Solve each of the following equations. Make sure to check your solution.

(a) $x - 14 = 12$

(b) $5a = 100$

(c) $b + (-1) = -10$

(d) $c \div 4 = 32$