

1. Consider the number 79 305 084 206.
 - (a) Use words to write the number.
 - (b) Write it in expanded form.
 - (c) Round it to the nearest ten.
 - (d) Round it to the nearest thousand.
 - (e) Round it to the nearest ten thousand.
2. The sides of a rectangle are 35 in and 18 in 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.
3. Consider the numbers: 5 712, 270, 275, 40 010, 3 150
 - (a) Find all numbers from the list that are divisible by 3.
 - (b) Find all numbers from the list that are divisible by 4.
 - (c) Find all numbers from the list that are divisible by 5.
 - (d) Find all numbers from the list that are divisible by 15.
 - (e) Find all numbers from the list that are divisible by 20.
4. List all factors of 120.
5. Find the least common multiple of 216 and 96.
6. Find the average of -13 , 54 , -29 , 14 , and -21 .
7. Perform the indicated operations. Show all steps.
 - (a) $4 - 3(5) - 7(-6) - 4(-5) =$
 - (b) $-5(-5) - 5(2) + 3 =$
 - (c) $3(-2) - |-3(3)| + 9 - 7(-2) =$
 - (d) $\frac{5(-5 + 3) + 7(-5 + 9) + 2}{3^2 - (2^2 - 2) \div (-2)} =$
 - (e) $-2 + (-2)^2 + (-2)^3 + (-2)^4 =$

8. Evaluate each of the following expressions if $a = -4$, $b = 2$, and $m = -3$.

(a) $am - 2m =$

(b) $ma - m - a =$

(c) $|-b - a| + a =$

(d) $(a + b)^2 =$

(e) $a^2 + b^2 =$

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

(a) $x + 8 = -3$

(b) $\frac{a}{-5} = -7$

(c) $y - 23 = -23$

(d) $-2b = 72$