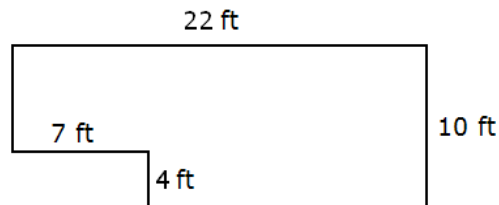


1. Consider the number 219 506 781
 - (a) Write it in expanded form.
 - (b) Use words to write it.
 - (c) Round it to the nearest ten thousand.
 - (d) Round it to the nearest million.
2. Consider the figure shown on the picture below.



- (a) Find the perimeter of the figure. Include units in your answer.
 - (b) Find the perimeter and area of the rectangle. Include units in your answer.
3. Consider the numbers: 512, 2700, 6204, 2406, 6402.
 - (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 12.
 4. List all factors of 144.
 5. Find the least common multiple of 70 and 120.
 6. Find the average of 4, -1 , 0 , -8 , 0 , and -7 .
 7. Perform the indicated operations. Show all steps.
 - (a)
$$\frac{-5(-3+7)(-2)(-2^2+3)}{-3(5+(-3))-(-2)((-2)^2-11)} =$$
 - (b)
$$\frac{(-2)^3 - (-1) - ((-2)^2 + 1)}{5 - 3 + 1} =$$
 - (c) $4 - 2(3 - (-1)^2) - (2 - 5) - 10 - 2(-3) =$

(d) $|12 - 3|2 - 7|| =$

(e) $|12 - 3||2 - 7| =$

(f) $12|-3|2 - 7|| =$

(g) $||12 - 3|2 - 7| =$

(h) $24 \div 6 \cdot 2 =$

(i) $(-1)^2 + (-1)^3 + (-1)^4 + (-1)^5 + (-1)^6 =$

8. Evaluate each of the following expressions if $a = -3$ and $b = -5$.

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

(b) $a^2 - 2ab + b^2 =$

(c) $2a - 3b - |2b - 1| =$

(d) $2a^2 + 7a - 5 =$

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

(a) $41d = -820$

(b) $b + 14 = -3$

(c) $\frac{y}{10} = -3$

(d) $m - (-6) = 3$