

- Round 206 094 038 to the nearest hundred thousand. **206 100 000**
- Consider the following numbers: 4181, 9800, 1358, 420, 55 050
 - Find all numbers from the list that are divisible by 4. **9800, 420**
 - Find all numbers from the list that are divisible by 5. **9800, 420, 55 050**
 - Find all numbers from the list that are divisible by 20. **9800, 420**
- Find the prime factorization of 1200. **$1200 = 2^4 \cdot 3 \cdot 5^2$**
- List all factors of 138. **1, 2, 3, 6, 23, 46, 69, 138**
- Find the average of the prime numbers between 30 and 45. **38**
- Is 301 a prime number? **No, $301 = 7 \cdot 43$**
- Perform the following operations. Show all steps.

(a) $7 - (-2^2 - (-2)^2)^2 = -57$

(b) $\left(\left((1-2)^2 - 2\right)^2 - 2\right)^2 - 2 = -1$

(c) $\frac{-(-3+7) - 8 \div 2^3}{|2^2 - 5|} = -5$

(d) $\frac{(-2)^2(2 - |-5|)}{(1-3)(2 - (-2)^2)} = -3$

- Evaluate each of the following expressions if $x = -2$, and $y = 3$.

(a) $x^4 - 3x^3 + 2x^2 + 5x - 7 = 31$

(b) $\frac{2x+y}{x+2} = \text{undefined}$

(c) $(y-2)(x+5) - 2x = 7$

(d) $\frac{y^2 - 2xy}{x+1} = -21$

- Solve each of the following equations Make sure to check your solutions.

(a) $\frac{3x-1}{8} = -2 \quad -5$

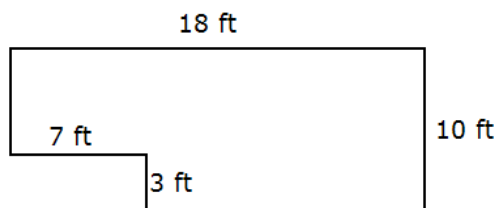
(b) $2x - 4 = 5 - 7x \quad 1$

(c) $\frac{x+2}{3} = 10 \quad 28$

(d) $\frac{x}{3} + 2 = 10 \quad 24$

(e) $3x + 11 = -x - 1 \quad -3$

10. Consider the picture below.



- (a) Find the perimeter of the figure. Include units in your answer. $P = 56$ ft
- (b) Find the area of the figure. Include units in your answer. $P = 159$ ft²