

1. Round 206 094 038 to the nearest hundred thousand.
2. Consider the following numbers: 4181, 9800, 1358, 420, 55 050
 - (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.
3. Find the prime factorization of 1200.
4. List all factors of 138.
5. Find the average of the prime numbers between 30 and 45.
6. Is 301 a prime number?
7. Perform the following operations. Show all steps.

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

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

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

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

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

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

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

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

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

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

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

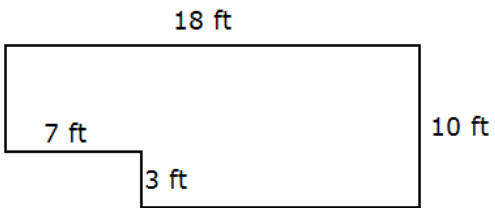
(b) $2x - 4 = 5 - 7x$

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

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

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

10. Consider the picture below.



- (a) Find the perimeter of the figure. Include units in your answer.
- (b) Find the area of the figure. Include units in your answer.