

- Find the prime factorization of 750.
- Find the prime factorization of 2100.
- List all factors of 96.
- Is the number 201 a prime?
- The sides of a rectangle are 23 yards and 32 yards long.
 - Find the perimeter of the rectangle.
 - Find the area of the rectangle.
- Consider the following numbers: 2008, 5410, 7956, 22 230, 1974.
 - Find all the numbers from the list that are divisible by 4.
 - Find all the numbers from the list that are divisible by 9.
 - Find all the numbers from the list that are divisible by 36.
- Perform the following division. Express your answer by giving the quotient and remainder.
For example, $26 \div 6 = 4 \text{ R } 2$.
 $78 \div 5 =$
- Simplify each of the following expressions.
 - $\frac{|-2^2 - 20 \div (-2) \cdot 2| - 30|}{-2^3 - (-1)^3} =$
 - $(-1)^1 + (-1)^2 + (-1)^3 + (-1)^4 + (-1)^5 =$
 - $\frac{(-3^2 + 12 \div (-3) \cdot (-2))^2 - 25 \div (-5)^2}{(-1)^2 + (-2)^3} =$
- Evaluate $\frac{3a^2 + a - 2}{a + 1}$ if
 - $a = -2$.
 - $a = -1$.
 - $a = 3$.
- Evaluate $\frac{2 - x}{x - 2}$ if
 - $x = -7$
 - $x = 5$
 - $x = 2$

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

(a) $5x - 3 = 12$

(b) $3x - 5 = x + 9$

(c) $3x - 8 = -x$

(d) $3x + 5 = 2x + 11$

12. Consider the following numbers.

$-11, -10, -9, -8, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12$

(a) Add all these numbers.

(b) Multiply all these numbers.

13. Graph the points $A(3, 5)$, $B(-2, -10)$, and $C(0, -4)$ in a rectangular coordinate system. Do these points form a straight line?