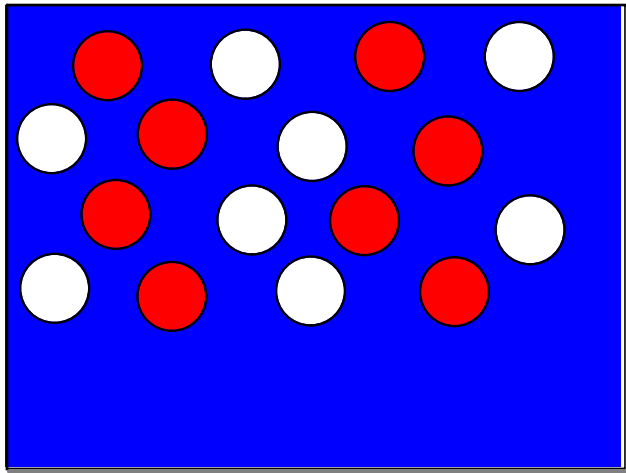


Problem of the Day: Write an inequality.
 Twenty decreased by 2 times a number is at most 10 less than 3 times the number.
 Plan for the Day: Get new weekly homework
 No integer quiz today due to pep rally
 More practice with writing equations and inequalities from story problems
 Objective: We will be able to write equations and inequalities from story problems.
 Happy early Birthday to Auston Rucker!!
 Happy early Birthday to Karina Gonzalez!!

<u>CLE</u>	<u>JKL</u>	<u>RED</u>	<u>JIC</u>	<u>TAJ</u>
	3	-2	3	6
			6	12
			9	
			12	



Write an inequality to represent the following situation.

The temperature in Austin is 95 degrees and decreasing at a rate of 4 degrees per day. The temperature in Albany, NY is 40 degrees and increasing at a rate of 5 degrees per day. For how many days will Austin be warmer or the same as Albany?

Write and solve an equation for the following situation.
 Eight less than 7 times a number is the same as 4 more than 3 times the number. Find the number.

Solve.
 $.54x - 1 = -.38x + 2.68$

Write an inequality for the situation below.
 Leona has \$40 and earns \$5 for each dog she walks.
 Adeline has no money, but she earns \$8 for each dog she walks. How many dogs would need to be walked for Leona to have less money than Adeline?

Write an equation and solve for the given situation.
 Tina bought 8 drinks and a small fry for \$1. Tonia bought 12 drinks, but she had a coupon for \$3 off the total. If Tina and Tonia spent the same amount of money, how much did each drink cost?

Solve for the variable.

$$\frac{1}{7}x + 3 = \frac{8}{7}x + 2$$

Write an inequality for the given situation.

A tree is 72 inches tall and growing at a rate of 4 inches per year. A cactus is 40 inches tall and growing at a rate of 6 inches per year. After how many years will the tree be shorter than the cactus?

Write and solve an equation for the following situation.
 Twenty-eight decreased by 6 times a number is the same as the number. Find the number.

Solve the equation.

$$\frac{-1}{4}x + 7 = \frac{-1}{2}x + 31$$

Write an inequality for the given situation.
 Hannah's bank account has a negative balance of \$85, so she is depositing \$7 a day to make her balance positive. Kelly's bank account also has a negative balance of \$40, but she is depositing only \$3 a day. At how many days will Hannah's bank account have at least as much money as Kelly's?

Write and solve an equation for the given situation.
 A store is having a sale on funny T-shirts. Jessie buys 5 shirts and a tank top for 12 dollars. Joey buys 7 shirts and then uses a coupon for 20 dollars. If Jessie and Joey spent the same amount of money, how much did each T-shirt cost?

Solve for x.
 $7x + 6.5 = 3.2x + 17.9$

What is the age of the U.S. Constitution?

How many amendments are on the U.S. Constitution?

The 19th amendment gave women the right to vote. Next year marks the 100th anniversary of when it was ratified. In what year was it ratified?

The current voting age is $3^2 * 2$. The amendment that made that the voting age is 8 more than the current voting age. What number of amendment established the voting age as that number?