

The sum of three numbers is 12. The first is five times the second and the sum of the first and the third is 9. find the numbers.

$$X+Y+Z=12$$

$$X=54$$

$$X+Z=9$$

e first is five times the second and the d the numbers.

$$y + 9 = 12$$
 $y = 3$ 
 $X = 15$ 
 $Z = -6$ 
e first number is the sum of the

The sum of three numbers is 20. The first number is the sum of the second and the third. The third number is three times the first. Find the numbers

$$X+y+z=2D$$

$$X=1D$$

$$X=1D$$

$$Z=3D$$

$$Y=-2D$$

$$Z=3D$$

$$Y=-2D$$

3

Billy's Restaurant ordered 200 flowers for Mother's Day. They ordered carnations at \$1.50 each, roses at \$5.75 each, and daisies at \$2.60 each. They ordered mostly carnations, and 20 fewer roses than daisies. The total order came to \$589.50. How many of each type of flower was ordered?

$$C + r + d = 200$$

$$1.5C + 5.75r + 2.6d = 589.50$$

$$r = d - 20$$

$$1.5C + 5.75(d - 20) + 2.6d = 589.50$$

$$1.5C + 5.75d - 115 + 2.6d = 589.50$$

80 carnations 50 roses 70 daisies The Arcadium arcade in Lynchburg, Tennessee uses 3 different colored tokens for their game machines. For \$20 you can purchase any of the following mixtures of tokens: 14 gold, 20 silver, and 24 bronze; OR, 20 gold, 15 silver, and 19 bronze; OR, 30 gold, 5 silver, and 13 bronze. What is the monetary value of each token?

Jule of each token?

$$14g + 20s + 24b = 20 = 7g + 10s + 12b = 10$$
 $20g + 15s + 19b = 20$ 
 $30g + 5s + 13b = 20$ 
 $30g + 5s + 13b = 20$ 
 $30g + 5s + 13b = 20$ 
 $20g + 15s + 19b = 20$ 

$$53g + 14b = 3D$$

$$-17 (1g + 2b = 4)$$

$$-49g - 14b = -28$$

$$+ 53g + 14b = 30$$

$$4g = 2$$

$$g = .50$$

gold \$0.50 Silver \$0.35 bronze \$0.25

gold tokens are worth \$.50 silver tokens are worth \$.35 bronze tokens are worth \$.25

Last Tuesday, Regal Cinemas sold a total of 8500 movie tickets. Proceeds totaled \$64,600. Tickets can be bought in one of 3 ways: a matinee admission costs \$5, student admission is \$6 all day, and regular admissions are \$8.50. How many of each type of ticket was sold if twice as many student tickets were sold as matinee tickets?

Tas matinee tickets?  

$$M + S + \Gamma = 8500$$
  
 $5m + 6S + 8.5\Gamma = 64,600$   
 $5 = 2m$ 

5800 regular tickets 1800 student tickets 900 matinee tickets

5) 
$$3(X - Y + 4z = 5)$$
  
 $4x+3y-3z = 5$   
 $2x+z=2$   
 $3x-3y+10z=15$   
 $4x+3y-2z=5$   
 $7x+10z=20$   
 $7x+10z=20$   
 $7x+10z=20$   
 $7x+10z=20$   
 $7x+10z=20$   
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