

1. Solve each of the following for  $x$

a.  $\frac{x}{-2} + 3 = 24$

b.  $\frac{3x+3}{6} = x - 5$

c.  $\frac{2(x-4)}{2} = \frac{3x+5}{4}$

2. Solve each of the following for  $x$  and state how many solutions each has:

a.  $5(7x-8) + 8x = -255$

b.  $92 = 8x + 4(x-1)$

c.  $3x - 9 = 3(x-4) + 2$

3. The sum of three consecutive number is 219. What are the three integers?

7. Hans needs to rent a moving truck for his move across Canada. **Company A** charges a rate of \$40 per day and a 100 dollar base fee. **Company B** charges a \$160 base fee, and then \$20 per day. After how many days will both companies charge the same amount?

8. Shelly works for a lawn mowing business. Every month the company pays her \$200, plus \$15 per lawn she mows. If shelly earned a total of \$395 last month, how many lawns did she mow?

9. Three friends go buy the same shirt and use a \$5 off coupon. They spend a total of \$66. What is the price of one shirt without the coupon?

10. Velma buys 5lbs of sliced deli meat and 7lbs of sliced cheese. The deli meat cost \$2 less per pound than the cheese. She pays a total of \$56. Write an equation that represents the scenario, make sure to define your variables.