1. Nate buys a video-game system.

   • The system costs $300.
   • Games cost $60 each.
   • He pays 13% tax on the system and on each game.
   • He has $850 in total to spend.

   After he pays for the system, how many games is Nate able to buy?

   a   exactly 12

   b   exactly 9

   c   no more than 7

   d   no more than 3

2. Temira needs to rent a car. She considers the following price equations, where C is the total cost, in dollars, and n is the number of days.

Company	Equation
Rentway	$C = 20n + 100$
Cheapie's Rentals	$C = 25n + 50$
Cars Cars Cars	$C = 50n$
Drive Away	$C = 15n + 125$

   Which company should she choose if she is planning to rent the car for at least 10 days?

   F   Rentway

   G   Cheapie's Rentals

   H   Cars Cars Cars

   J   Drive Away

3. Which value of x satisfies the equation $5 - 2x = 9$?

   F $x = -7$

   G $x = -2$

   H $x = 2$

   J $x = 3$

4. Josie works in a sports store. She receives 8% of the total sales each day. One day, she receives $35 for her portion of the total sales. What are the total sales for that day?

   a $37.80

   b $43.75

   c $280.00

   d $437.50

5. Nadia lives 11.4 km from school and rides her bike to school every day.

The equation $d = 11.4 - 0.6t$ represents the relationship between d, her distance from school in km, and t, her time spent travelling in minutes.

If she leaves home at 8:05 a.m., what time will she get to school?

a   8:11 a.m.

b   8:16 a.m.

c   8:17 a.m.

d   8:24 a.m.

6. Alfredo and his wife, Jody, work in a restaurant.

Last week Alfredo received an average of $15 in tips for each of the 55 tables he served. Jody received an average of $20 in tips for each of the 60 tables she served.

They are planning a weekend trip. Alfredo will pay a total of $220 for their hotel room and Jody will pay a total of $160 for their rental car.

How much of their combined tips will be left over after they have paid for their hotel room and rental car?

a $1620

b $1645

c $2025

d $2405

7. **How Many Uniforms?**

The equation $C = 20n + 35$ represents the relationship between the cost of school volleyball uniforms, C, in dollars, and the number of uniforms ordered, n.

- The uniform company requires that the school order a minimum of 15 uniforms.
- The school has a maximum of $600 to spend on the uniforms.

Determine the possible values for n and C in this situation.

Show your work.

8. **CD Sell-Off**

Juan belongs to a CD club that sells CDs for $11.44 each before tax. His first shipment of CDs costs $90.49 including 13% tax.

How many CDs are in his first shipment?

Show your work.

9. **Sales Goals**

Alexis works part-time at a clothing store. She is paid an hourly rate of $10.25/h and also earns a commission of 3.5% of her total weekly sales.

Alexis works at the store 12 hours a week.

If Alexis's goal is to earn $150 every week, what do her total weekly sales need to be?

Show your work.

10. **Part-Time Job**

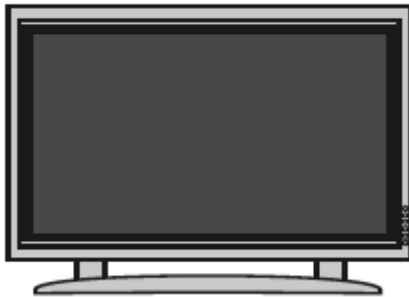Ezre works part-time at a clothing store. He earns $80 per week plus 6% of the value of his weekly sales.

This week Ezre earns $119.

What is the total value of his sales this week?

Show your work.

11. **Competing Sales**

Sam is interested in buying a TV. At Fair Deal, the TV is regularly priced at $599.99 and is on sale for 20% off the regular price. At Big Big Discount, the same TV is regularly priced at $899.99 and is on sale for 30% off the regular price.

What is the difference in the sale price of the TV between these two stores?

Show your work.