

► Practice Problem Solving

Solve each problem.

Show your work.

1. Four college roommates drove 1,050 miles to Florida for spring break. Xavier drove 300 more miles than Yuri, and Yuri drove 200 more miles than Zack, who drove 60 miles. How many miles did Walter (w) drive?

a. How many miles did Zack drive? _____

b. What expression represents the miles Yuri drove? _____

c. What expression represents the miles Xavier drove? _____

d. The number of miles Walter (w) drove is the number of miles Zack, Yuri, and Xavier drove subtracted from the number of miles the friends drove altogether. Write an equation to represent this fact.

e. How many miles did Walter drive? _____

2. Sasha earns \$8 per hour working at her grandparents' farm. During July, she worked $39\frac{1}{2}$ hours at the farm, and earned \$47 babysitting. How many more dollars (d) does Sasha need to earn to buy a gadget that costs \$399?
- _____

3. Anya, Jose, Cali, and Stephan walk for exercise. Anya's route is $2\frac{1}{4}$ kilometers long. Jose's route is $1\frac{1}{2}$ fewer km. Cali's route is $1\frac{1}{2}$ times as long as Jose's route, and 2 fewer km than Stephan's route. What distance (d) is Stephan's route?
- _____

4. A \$750 gift was shared equally by 5 people. After spending \$90 of her share, Clarissa divided the amount remaining into 2 equal parts. What amount of money does each part (p) represent?
- _____



Solve each problem.

Show your work.

5. Chloe purchased a sweater that cost \$24, and a shirt that cost $\frac{5}{8}$ times as much as the sweater. What amount of change (c) did Chloe receive if she gave the clerk \$50?
- _____
6. Matti has 1 more pencil than Chang-Lin. Renaldo has 3 times as many pencils as Chang-Lin, and 1 more than Jorge. Jorge has 5 pencils. How many pencils (p) does Matti have?
- _____
7. Six teachers, seventy-eight students, and ten parents are boarding buses for a school field trip. Each bus can carry 32 passengers. If the passengers board each bus until it is full, how many passengers (p) will be on the bus that is not full?
- _____

► What's the Error?

Dear Math Students,

I was asked to find the amount of change (c) a shopper would receive from \$40 after purchasing a pair of jeans for \$28 and a pair of socks that cost $\frac{1}{4}$ as much as the jeans. I used the solution equation $c = 40 - 28 - (28 \div \frac{1}{4})$ to solve the problem.

The equation did not give me a sensible answer. Can you tell me what I did wrong?

Your friend,
Puzzled Penguin



8. Write a response to Puzzled Penguin.
