

USING GUESS CHARTS TO SOLVE ALGEBRA PROBLEMS

In one week Cheryl ran twice as many miles as Bruce, and Deborah ran 7 miles less than Cheryl. The three ran a total of 63 miles. How many miles did Cheryl run?

CHERYL	BRUCE	DEBORAH	TOTAL

In my change purse there are twice as many dimes as quarters and four times as many nickels as quarters. There are 49 coins in all. How many dimes are there?

DIMES	QUARTERS	NICKELS	TOTAL

If a comb and brush together cost \$2.50 and the brush costs \$2.00 more than the comb, how much does the comb cost?

COMB	BRUSH	TOTAL

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Set up a guess chart for each problem.

Make at least 2 guesses before you find the solution.

1. Sara is 10 years younger than her brother Eric. The sum of their ages is 52. How old is Eric?
2. Jane is 7 years younger than Kathy, and Linda is 7 years older than Kathy. The sum of their ages is 63. How old is Jane?
3. The width of a rectangle is $\frac{1}{5}$ its length. The perimeter of the rectangle is 96 inches. What are the dimensions (length and width) of the rectangle?
4. Apples cost 8 cents per pound less than pears. Three pounds of apples and 2 pounds of pears cost \$1.11. How much does each fruit cost per pound?

5. The first number is 2 less than three times the second number, and the third number is 8 more than the first. The sum of all three numbers is 67. What are the numbers?

6. The price of movie tickets is half as much for children as for adults. The cost for 4 adults and 3 children is \$19.25. What is the cost for an adult ticket?

7. The length of a rectangle is 4 inches longer than its width. If the perimeter is 28 inches, what is its width?

8. Jennifer is 4 years older than her brother Stephen. Alice is twice as old as Stephen. The sum of their ages is 34. How old is each?