



Valentine's Day Math Puzzlers

Name _____

Solve each word problem below. Be sure to show your work using numbers, pictures, words, and/or symbols.

1. Sarah opened a box of valentine chocolates and ate 4 of them that day. The next day she gave 3 candies to each of her 2 friends. Five chocolates were left in the box. How many candies were in the box when she opened it?

$$4 + 2 \times 3 = 4 + 6 = 10$$
$$10 + 5 = 15$$

Answer: There were 15 candies in the box

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2. Christopher bought two boxes of valentine cards for his class. There were a dozen cards in each box. How many cards will he have left if he gives one to each of his twenty classmates and his teacher?

$$2 \times 12 = 24$$
$$20 + 1 = 21$$
$$24 - 21 = 3$$

Answer: He will have 3 cards left

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3. Rebecca opened a box of valentine hearts and counted how many she had of each color. There were 30 candies in the box and half of them were pink. She also counted 5 purple and 3 green. The rest were orange. How many orange hearts were in the box?

$$30 : 2 = 15 \text{ pink candies}$$
$$15 + 5 + 3 = 23$$
$$30 - 23 = 7$$

Answer: There were 7 orange hearts in the box

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4. Xavier's class decided to have a Valentine's Day party. They want enough punch for each of the 24 students to have one cup. The punch recipe they want to use calls for one gallon ginger ale, 1 quart orange juice and 1 cup lemon juice. Will this recipe make enough punch for the class? Be sure to show your work or explain your answer!

$$1 \text{ gallon is } 16 \text{ cups}$$
$$1 \text{ quart is } 4 \text{ cups}$$
$$16 + 4 + 1 = 21 \text{ cups}$$

Answer: This recipe does not make enough punch for the class

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