

Word Problems - Solving Equations

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For each problem: 1) Define the unknowns 2) State the equation that represents the situation 3) Solve the equation 4) Answer the question with a clear statement

- 1) Paul was going to sell all of his stamp collection to buy a video game. After selling half of them he changed his mind. He then bought eight more. How many did he start with if he now has 24?
- 2) Aliyah won 58 lollipops playing horseshoes at her school's game night. Later, she gave four to each of her friends. She only has 6 remaining. How many friends does she have?
- 3) Emily had some paper with which to make note cards. On her way to her room she found three more pieces to use. In her room she cut each piece of paper in half. When she was done she had 24 half-pieces of paper. With how many sheets of paper did she start?
- 4) The Cooking Club made some pies to sell during lunch to raise money for an end-of-year banquet. The cafeteria contributed three pies to the club. Each pie was then cut into seven pieces and sold. There were a total of 56 pieces to sell. How many pies did the club make?

- 5) The Cooking Club made some pies to sell during lunch to raise money for an end-of-year banquet. The cafeteria contributed two pies to the club. Each pie was then cut into five pieces and sold. There were a total of 35 pieces to sell. How many pies did the club make?
- 6) You bought a magazine for \$3 and some notepads for \$3 each. You spent a total of \$18. How many notepads did you buy?
- 7) Heather won 110 lollipops playing the bean bag toss at her school's game night. Later, she gave four to each of her friends. She only has 2 remaining. How many friends does she have?
- 8) 112 students went on a field trip. Four buses were filled and 28 students traveled in cars. How many students were in each bus?

9) On Tuesday Darryl bought ten posters. On Wednesday half of all the posters that he had were destroyed. On Thursday there were only 23 left. How many did he have on Monday?

10) Elisa won 48 lollipops playing horseshoes at her school's game night. Later, she gave three to each of her friends. She only has 3 remaining. How many friends does she have?

11) Krystal won 82 super bouncy balls playing the bean bag toss at the county fair. At school she gave three to every student in her math class. She only has 7 remaining. How many students are in her class?

12) Amanda had some candy to give to her four children. She first took one piece for herself and then evenly divided the rest among her children. Each child received three pieces. With how many pieces did she start?

13) Pranav won 64 lollipops playing the bean bag toss at his school's game night. Later, he gave two to each of his friends. He only has 8 remaining. How many friends does he have?

14) On Tuesday Eugene bought nine hats. On Wednesday half of all the hats that he had were destroyed. On Thursday there were only 24 left. How many did he have on Monday?

15) You bought a magazine for \$2 and some candy bars for \$3 each. You spent a total of \$11. How many candy bars did you buy?

16) Brenda sold half of her comic books and then bought nineteen more. She now has 44. With how many did she begin?

17) The sum of three consecutive numbers is 51.
What is the smallest of these numbers?

18) Abhasra had some candy to give to her five children. She first took ten pieces for herself and then evenly divided the rest among her children. Each child received three pieces. With how many pieces did she start?

19) Ryan bought four CDs. A week later half of all his CDs were destroyed in a fire. There are now only 20 CDs left. With how many did he start?

20) Jose spent half of his weekly allowance on candy. To earn more money his parents let him wash the car for \$10. What is his weekly allowance if he ended with \$13?

21) Jasmine spent half of her weekly allowance at the movies. To earn more money her parents let her mow the lawn for \$7. What is her weekly allowance if she ended with \$14?

22) Jack had \$22 to spend on four avocados. After buying them he had \$10. How much did each avocado cost?

23) Danielle had some paper with which to make note cards. On her way to her room she found seven more pieces to use. In her room she cut each piece of paper in half. When she was done she had 28 half-pieces of paper. With how many sheets of paper did she start?

24) Kim sold half of her comic books and then bought fourteen more. She now has 27. With how many did she begin?

Answers to Word Problems - Solving Equations (ID: 1)

1) 32
5) 5
9) 36
13) 28
17) 16
21) \$14

2) 13
6) 5
10) 15
14) 39
18) 25
22) \$3

3) 9
7) 27
11) 25
15) 3
19) 36
23) 7

4) 5
8) 21
12) 13
16) 50
20) \$6
24) 26