



Two-step equations - word problems - integers

- 1) Abhasra bought ten CDs. A week later half of all her CDs were destroyed in a fire. There are now only 22 CDs left. With how many did she start?
- 2) The sum of three consecutive even numbers is 72. What is the smallest of these numbers?
- 3) Gabriella sold half of her comic books and then bought fifteen more. She now has 34. With how many did she begin?
- 4) Jack won 71 lollipops playing basketball at the county fair. At school he gave three to every student in his math class. He only has 5 remaining. How many students are in his class?
- 5) On Tuesday Bill bought six 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?
- 6) The Cooking Club made some pies to sell at a basketball game to raise money for the new math books. The cafeteria contributed three pies to the sale. Each pie was then cut into eight pieces and sold. There were a total of 64 pieces to sell. How many pies did the club make?

- 7) You bought a magazine for \$2 and some erasers for \$4 each. You spent a total of \$14. How many erasers did you buy?
- 8) Brenda had \$23 to spend on two notebooks. After buying them she had \$19. How much did each notebook cost?
- 9) Eduardo spent half of his weekly allowance buying pizza. To earn more money his parents let him clean the windows in the house for \$7. What is his weekly allowance if he ended with \$12?
- 10) 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 eight pieces and sold. There were a total of 56 pieces to sell. How many pies did the club make?
- 11) Molly had some candy to give to her three children. She first took three pieces for herself and then evenly divided the rest among her children. Each child received five pieces. With how many pieces did she start?
- 12) Danielle bought nine CDs. A week later half of all her CDs were destroyed in a fire. There are now only 22 CDs left. With how many did she start?

- 13) Jose sold half of his comic books and then bought twenty more. He now has 30. With how many did he begin?
- 14) Ndiba won 50 pieces of gum playing basketball at the county fair. At school he gave two to every student in his math class. He only has 2 remaining. How many students are in his class?
- 15) Totsakan won 66 pieces of gum playing hoops at the county fair. At school he gave two to every student in his math class. He only has 4 remaining. How many students are in his class?
- 16) Willie had some paper with which to make note cards. On his way to his room he found four more pieces to use. In his room he cut each piece of paper in half. When he was done he had 24 half-pieces of paper. With how many sheets of paper did he start?
- 17) Amanda spent half of her weekly allowance on clothes. To earn more money her parents let her clean the gutters for \$8. What is her weekly allowance if she ended with \$17?
- 18) Kim had some candy to give to her four children. She first took two pieces for herself and then evenly divided the rest among her children. Each child received four pieces. With how many pieces did she start?

- 19) 377 students went on a field trip. Eight buses were filled and 25 students traveled in cars. How many students were in each bus?
- 20) Castel had some candy to give to his three children. He first took nine pieces for himself and then evenly divided the rest among his children. Each child received four pieces. With how many pieces did he start?
- 21) 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 five pieces and sold. There were a total of 40 pieces to sell. How many pies did the club make?
- 22) Jill sold half of her comic books and then bought sixteen more. She now has 37. With how many did she begin?
- 23) Natalie had some candy to give to her five children. She first took two pieces for herself and then evenly divided the rest among her children. Each child received three pieces. With how many pieces did she start?
- 24) Mary won 86 pieces of gum playing basketball at her school's game night. Later, she gave three to each of her friends. She only has 8 remaining. How many friends does she have?

25) Kali won 37 super bouncy balls playing hoops at her school's game night. Later, she gave three to each of her friends. She only has 1 remaining. How many friends does she have?

26) Alberto had some paper with which to make note cards. On his way to his room he found six more pieces to use. In his room he cut each piece of paper in half. When he was done he had 32 half-pieces of paper. With how many sheets of paper did he start?

27) Jessica was going to sell all of her stamp collection to buy a video game. After selling half of them she changed her mind. She then bought fifteen more. How many did she start with if she now has 43?

28) Kristin bought eight boxes. A week later half of all her boxes were destroyed in a fire. There are now only 17 boxes left. With how many did she start?

29) Matt rented a bike from Jessica's Bikes. It cost \$13 plus \$4 per hour. If Matt paid \$37 then he rented the bike for how many hours?

30) How old am I if 200 reduced by 2 times my age is 18?

Answers to Two-step equations - word problems - integers

- | | | | |
|----------|--------|--------|--------|
| 1) 34 | 2) 22 | 3) 38 | 4) 22 |
| 5) 40 | 6) 5 | 7) 3 | 8) \$2 |
| 9) \$10 | 10) 5 | 11) 18 | 12) 35 |
| 13) 20 | 14) 24 | 15) 31 | 16) 8 |
| 17) \$18 | 18) 18 | 19) 44 | 20) 21 |
| 21) 5 | 22) 42 | 23) 17 | 24) 26 |
| 25) 12 | 26) 10 | 27) 56 | 28) 26 |
| 29) 6 | 30) 91 | | |