



Two-step equations - word problems - integers

- 1) You had \$22 to spend on four raffle tickets. After buying them you had \$6. How much did each raffle ticket cost?
- 2) Jennifer had \$24 to spend on five pens. After buying them she had \$14. How much did each pen cost?
- 3) 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 four pieces and sold. There were a total of 36 pieces to sell. How many pies did the club make?
- 4) The Cooking Club made some pies to sell at a basketball game to raise money for the new math books. The cafeteria contributed two pies to the sale. Each pie was then cut into six pieces and sold. There were a total of 60 pieces to sell. How many pies did the club make?
- 5) Maria had \$22 to spend on five pencils. After buying them she had \$12. How much did each pencil cost?
- 6) Mofor spent half of his weekly allowance on clothes. To earn more money his parents let him clean the oven for \$8. What is his weekly allowance if he ended with \$15?

- 7) Mike won 55 pieces of gum playing hoops at the county fair. At school he gave four to every student in his math class. He only has 3 remaining. How many students are in his class?
- 8) Julio sold half of his comic books and then bought fourteen more. He now has 28. With how many did he begin?
- 9) 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 six pieces and sold. There were a total of 72 pieces to sell. How many pies did the club make?
- 10) Chelsea wanted to make note cards by cutting pieces of paper in half. Before starting she got three more pieces to use. When she was done she had 24 half-pieces of paper. With how many pieces did she start?
- 11) Aliyah's Bikes rents bikes for \$10 plus \$5 per hour. Shayna paid \$45 to rent a bike. For how many hours did she rent the bike?
- 12) The sum of three consecutive odd numbers is 33. What is the smallest of these numbers?

- 13) How old am I if 400 reduced by 2 times my age is 232?
- 14) 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 80 pieces to sell. How many pies did the club make?
- 15) The sum of three consecutive even numbers is 42. What is the smallest of these numbers?
- 16) A wise man once said, "300 reduced by twice my age is 114." What is his age?
- 17) John spent half of his weekly allowance playing mini-golf. To earn more money his parents let him mow the lawn for \$10. What is his weekly allowance if he ended with \$13?
- 18) Carlos won 60 super bouncy balls playing the bean bag toss at his school's game night. Later, he gave two to each of his friends. He only has 2 remaining. How many friends does he have?

- 19) Eugene had some paper with which to make note cards. On his way to his room he found three more pieces to use. In his room he cut each piece of paper in half. When he was done he had 12 half-pieces of paper. With how many sheets of paper did he start?
- 20) Shawna sold half of her comic books and then bought ten more. She now has 35. With how many did she begin?
- 21) Jennifer 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 four more. How many did she start with if she now has 26?
- 22) Kathryn bought a magazine for \$5 and eight erasers. She spent a total of \$45. How much did each eraser cost?
- 23) Scott wanted to make note cards by cutting pieces of paper in half. Before starting he got two more pieces to use. When he was done he had 14 half-pieces of paper. With how many pieces did he start?
- 24) A wise man once said, "500 reduced by 4 times my age is 188." What is his age?

25) Adam spent half of his weekly allowance buying pizza. To earn more money his parents let him wash the car for \$5. What is his weekly allowance if he ended with \$13?

26) Huong spent half of her weekly allowance on candy. To earn more money her parents let her wash the car for \$6. What is her weekly allowance if she ended with \$14?

27) Darryl spent half of his weekly allowance buying pizza. To earn more money his parents let him mow the lawn for \$4. What is his weekly allowance if he ended with \$12?

28) For a field trip 11 students rode in cars and the rest filled ten buses. How many students were in each bus if 521 students were on the trip?

29) The Cooking Club made some pies to sell during lunch to raise money for a field trip. The cafeteria helped by donating four pies to the club. Each pie was then cut into four pieces and sold. There were a total of 36 pieces to sell. How many pies did the club make?

30) Krystal wanted to make note cards by cutting pieces of paper in half. Before starting she got seven more pieces to use. When she was done she had 28 half-pieces of paper. With how many pieces did she start?

Answers to Two-step equations - word problems - integers

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|----------|----------|----------|--------|
| 1) \$4 | 2) \$2 | 3) 7 | 4) 8 |
| 5) \$2 | 6) \$14 | 7) 13 | 8) 28 |
| 9) 10 | 10) 9 | 11) 7 | 12) 9 |
| 13) 84 | 14) 7 | 15) 12 | 16) 93 |
| 17) \$6 | 18) 29 | 19) 3 | 20) 50 |
| 21) 44 | 22) \$5 | 23) 5 | 24) 78 |
| 25) \$16 | 26) \$16 | 27) \$16 | 28) 51 |
| 29) 5 | 30) 7 | | |