



Two-step equations - word problems - decimals

- 1) Half of your baseball card collection got wet and was ruined. You bought 4 cards to replace some that were lost. How many did you begin with if you now have 23?
- 2) The sum of three consecutive odd numbers is 51. What is the smallest of these numbers?
- 3) Jimmy spent \$38.83 on a magazine and eight erasers. If the magazine cost \$3.87 then how much was each eraser?
- 4) Half of your baseball card collection got wet and was ruined. You bought 13 cards to replace some that were lost. How many did you begin with if you now have 27?
- 5) Brenda's Bikes rents bikes for \$16.14 plus \$3.10 per hour. Anjali paid \$28.54 to rent a bike. For how many hours did she rent the bike?
- 6) Asanji had \$24.87 to spend on four raffle tickets. After buying them he had \$15.51. How much did each raffle ticket cost?

- 7) Mike spent half of his weekly allowance buying pizza. To earn more money his parents let him clean the windows in the house for \$6.65. What is his weekly allowance if he ended with \$15.61?
- 8) You had \$22.16 to spend on three notebooks. After buying them you had \$13.91. How much did each notebook cost?
- 9) Castel spent half of his weekly allowance playing arcade games. To earn more money his parents let him mow the lawn for \$5.79. What is his weekly allowance if he ended with \$12.26?
- 10) Julio 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 thirteen more. How many did he start with if he now has 31?
- 11) Shayna sold half of her comic books and then bought nine more. She now has 19. With how many did she begin?
- 12) Jaidee rented a bike from Jose's Bikes. It cost \$12.05 plus \$6.31 per hour. If Jaidee paid \$37.29 then she rented the bike for how many hours?

13) For a field trip 19 students rode in cars and the rest filled three buses. How many students were in each bus if 181 students were on the trip?

14) For a field trip 12 students rode in cars and the rest filled ten buses. How many students were in each bus if 402 students were on the trip?

15) For a field trip 8 students rode in cars and the rest filled five buses. How many students were in each bus if 298 students were on the trip?

16) You had \$22.40 to spend on four advocados. After buying them you had \$6.80. How much did each avocado cost?

17) You bought a magazine for \$4.50 and three notepads. You spent a total of \$17.10. How much did each notepad cost?

18) Kali spent half of her weekly allowance on clothes. To earn more money her parents let her clean the oven for \$8.70. What is her weekly allowance if she ended with \$16?

- 19) Norachai 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 seven more. How many did he start with if he now has 32?
- 20) The sum of three consecutive even numbers is 72. What is the smallest of these numbers?
- 21) Matt spent half of his weekly allowance on candy. To earn more money his parents let him clean the oven for \$9. What is his weekly allowance if he ended with \$18.80?
- 22) Scott bought a magazine for \$2.10 and five notepads. He spent a total of \$22.60. How much did each notepad cost?
- 23) Shayna spent half of her weekly allowance buying pizza. To earn more money her parents let her wash the car for \$7.40. What is her weekly allowance if she ended with \$13.60?
- 24) Chelsea sold half of her comic books and then bought seven more. She now has 21. With how many did she begin?

25) For a field trip 17 students rode in cars and the rest filled eight buses. How many students were in each bus if 257 students were on the trip?

26) Maria spent half of her weekly allowance playing arcade games. To earn more money her parents let her mow the lawn for \$6.70. What is her weekly allowance if she ended with \$15.10?

27) Darryl spent half of his weekly allowance playing mini-golf. To earn more money his parents let him mow the lawn for \$4.50. What is his weekly allowance if he ended with \$10.80?

28) Julia spent half of her weekly allowance playing arcade games. To earn more money her parents let her wash the dog for \$7.20. What is her weekly allowance if she ended with \$11.50?

29) Half of your baseball card collection got wet and was ruined. You bought 19 cards to replace some that were lost. How many did you begin with if you now have 37?

30) Asanji spent half of his weekly allowance playing arcade games. To earn more money his parents let him wash the dog for \$4.80. What is his weekly allowance if he ended with \$8.30?

Answers to Two-step equations - word problems - decimals

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|-------------|-------------|-------------|------------|
| 1) 38 | 2) 15 | 3) \$4.37 | 4) 28 |
| 5) 4 | 6) \$2.34 | 7) \$17.92 | 8) \$2.75 |
| 9) \$12.94 | 10) 36 | 11) 20 | 12) 4 |
| 13) 54 | 14) 39 | 15) 58 | 16) \$3.90 |
| 17) \$4.20 | 18) \$14.60 | 19) 50 | 20) 22 |
| 21) \$19.60 | 22) \$4.10 | 23) \$12.40 | 24) 28 |
| 25) 30 | 26) \$16.80 | 27) \$12.60 | 28) \$8.60 |
| 29) 36 | 30) \$7 | | |