



## Two-step equations - word problems - decimals

- 1) Julia won 99 pieces of gum playing the bean bag toss at the county fair. At school she gave four to every student in her math class. She only has 3 remaining. How many students are in her class?
- 2) Abhasra's Bikes rents bikes for \$13.79 plus \$4.57 per hour. Gabriella paid \$45.78 to rent a bike. For how many hours did she rent the bike?
- 3) Jack won 122 pieces of gum playing hoops at the county fair. At school he gave four to every student in his math class. He only has 2 remaining. How many students are in his class?
- 4) Abhasra spent half of her weekly allowance at the movies. To earn more money her parents let her wash the dog for \$4.70. What is her weekly allowance if she ended with \$13.50?
- 5) John won 72 pieces of gum playing hoops at the county fair. At school he gave four to every student in his math class. He only has 4 remaining. How many students are in his class?
- 6) Eduardo sold half of his comic books and then bought nine more. He now has 27. With how many did he begin?

- 7) Scott spent half of his weekly allowance on clothes. To earn more money his parents let him wash the car for \$6.53. What is his weekly allowance if he ended with \$12.03?
- 8) Eugene sold half of his comic books and then bought seventeen more. He now has 30. With how many did he begin?
- 9) You bought a magazine for \$3.73 and some erasers for \$4.78 each. You spent a total of \$37.19. How many erasers did you buy?
- 10) A wise man once said, "400 reduced by twice my age is 206." What is his age?
- 11) 117 students went on a field trip. Three buses were filled and 6 students traveled in cars. How many students were in each bus?
- 12) Jack won 46 lollipops playing hoops at the county fair. At school he gave two to every student in his math class. He only has 8 remaining. How many students are in his class?

- 13) You bought a magazine for \$5.49 and some erasers for \$2.86 each. You spent a total of \$11.21. How many erasers did you buy?
- 14) Totsakan won 37 super bouncy balls playing hoops at his school's game night. Later, he gave two to each of his friends. He only has 1 remaining. How many friends does he have?
- 15) Bill sold half of his comic books and then bought fourteen more. He now has 41. With how many did he begin?
- 16) Ndiba spent half of his weekly allowance playing arcade games. To earn more money his parents let him wash the dog for \$6.80. What is his weekly allowance if he ended with \$11.10?
- 17) Jaidee sold half of her comic books and then bought five more. She now has 31. With how many did she begin?
- 18) Mei sold half of her comic books and then bought five more. She now has 30. With how many did she begin?

19) You had \$22.90 to spend on three notebooks. After buying them you had \$12.40. How much did each notebook cost?

20) Pranav rented a bike from DeShawn's Bikes. It cost \$13.90 plus \$5.20 per hour. If Pranav paid \$55.50 then he rented the bike for how many hours?

21) Rob rented a bike from Jimmy's Bikes. It cost \$20 plus \$4.40 per hour. If Rob paid \$50.80 then he rented the bike for how many hours?

22) Rob 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 sixteen more. How many did he start with if he now has 32?

23) How old am I if 500 reduced by 2 times my age is 400?

24) Imani spent half of her weekly allowance at the movies. To earn more money her parents let her weed the garden for \$4.50. What is her weekly allowance if she ended with \$12?

25) A wise man once said, "500 reduced by 4 times my age is 248." What is his age?

26) Bill spent half of his weekly allowance playing mini-golf. To earn more money his parents let him wash the car for \$8.60. What is his weekly allowance if he ended with \$11.80?

27) Kristin had \$21.20 to spend on three notebooks. After buying them she had \$13.10. How much did each notebook cost?

28) Kristin sold half of her comic books and then bought eleven more. She now has 27. With how many did she begin?

29) Lisa had \$24.90 to spend on six pens. After buying them she had \$8.10. How much did each pen cost?

30) The sum of three consecutive odd numbers is 33. What is the smallest of these numbers?

## Answers to Two-step equations - word problems - decimals

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|------------|------------|------------|------------|
| 1) 24      | 2) 7       | 3) 30      | 4) \$17.60 |
| 5) 17      | 6) 36      | 7) \$11    | 8) 26      |
| 9) 7       | 10) 97     | 11) 37     | 12) 19     |
| 13) 2      | 14) 18     | 15) 54     | 16) \$8.60 |
| 17) 52     | 18) 50     | 19) \$3.50 | 20) 8      |
| 21) 7      | 22) 32     | 23) 50     | 24) \$15   |
| 25) 63     | 26) \$6.40 | 27) \$2.70 | 28) 32     |
| 29) \$2.80 | 30) 9      |            |            |