Two-step equations - word problems - decimals

1) Jimmy won 52 super bouncy balls playing hoops at the county fair. At school he gave two to every student in his math class. He only has 6 remaining. How many students are in his class?

2) Stefan won 81 pieces of gum playing hoops at the county fair. At school he gave four to every student in his math class. He only has 9 remaining. How many students are in his class?

3) Perry spent half of his weekly allowance at the movies. To earn more money his parents let him wash the dog for $8.50. What is his weekly allowance if he ended with $18.10?

4) Dan had some paper with which to make note cards. On his way to his room he found seven more pieces to use. In his room he cut each piece of paper in half. When he was done he had 22 half-pieces of paper. With how many sheets of paper did he start?

5) Maria 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 sixteen more. How many did she start with if she now has 26?

6) On Tuesday Asanji bought six hats. On Wednesday half of all the hats that he had were destroyed. On Thursday there were only 21 left. How many did he have on Monday?

7) The sum of three consecutive even numbers is 66. What is the smallest of these numbers?

8) A wise man once said, "400 reduced by 4 times my age is 104." What is his age?

9) How old am I if 400 reduced by 4 times my age is 56?

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

11) Shayna spent half of her weekly allowance buying pizza. To earn more money her parents let her clean the gutters for $8.67. What is her weekly allowance if she ended with $15.24?

12) Mike's Bikes rents bikes for $10.93 plus $3.71 per hour. Cody paid $40.61 to rent a bike. For how many hours did he rent the bike?

13) Sumalee spent half of her weekly allowance playing arcade games. To earn more money her parents let her wash the dog for $9.45. What is her weekly allowance if she ended with $19.11?

14) Natalie wanted to make note cards by cutting pieces of paper in half. Before starting she got six more pieces to use. When she was done she had 22 half-pieces of paper. With how many pieces did she start?

15) Mark wanted to make note cards by cutting pieces of paper in half. Before starting he got three more pieces to use. When he was done he had 22 half-pieces of paper. With how many pieces did he start?

16) Lisa bought eight CDs. A week later half of all her CDs were destroyed in a fire. There are now only 21 CDs left. With how many did she start?

17) Cody's Bikes rents bikes for $14.20 plus $8 per hour. Kali paid $46.20 to rent a bike. For how many hours did she rent the bike?

18) Half of your baseball card collection got wet and was ruined. You bought 11 cards to replace some that were lost. How many did you begin with if you now have 36?

19) A wise man once said, "500 reduced by twice my age is 334." What is his age?

20) Shawna 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 three pieces. With how many pieces did she start?

21) The Cooking Club made some pies to sell during lunch to raise money for an end-of-year banquet. The cafeteria contributed four pies to the club. Each pie was then cut into five pieces and sold. There were a total of 55 pieces to sell. How many pies did the club make?

22) 203 students went on a field trip. Four buses were filled and 27 students traveled in cars. How many students were in each bus?

23) The sum of three consecutive odd numbers is 57. What is the smallest of these numbers?

24) Ming spent half of her weekly allowance on candy. To earn more money her parents let her wash the car for $6.10. What is her weekly allowance if she ended with $12.40?

25) Ndiba 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 28 half-pieces of paper. With how many sheets of paper did he start?

26) On Tuesday Huong bought nine posters. On Wednesday half of all the posters that she had were destroyed. On Thursday there were only 21 left. How many did she have on Monday?

27) Darryl bought six boxes. A week later half of all his boxes were destroyed in a fire. There are now only 20 boxes left. With how many did he start?

28) Chelsea sold half of her comic books and then bought seventeen more. She now has 32. With how many did she begin?

29) Kim won 45 lollipops playing basketball at the county fair. At school she gave three to every student in her math class. She only has 6 remaining. How many students are in her class?

30) Krystal won 66 pieces of gum playing basketball at the county fair. At school she gave three to every student in her math class. She only has 9 remaining. How many students are in her class?

Answers to Two-step equations - word problems - decimals

1) 23	2) 18	3) $19.20	4) 4
5) 20	6) 36	7) 20	8) 74
9) 86	10) 18	11) $13.14	12) 8
13) $19.32	14) 5	15) 8	16) 34
17) 4	18) 50	19) 83	20) 14
21) 7	22) 44	23) 17	24) $12.60
25) 10	26) 33	27) 34	28) 30
29) 13	30) 19		