

Multi-Step Equations - Fractions and Decimals

Sheet 1

- 1) Danielle baked macaroni for her children for which she used up $\frac{1}{9}$ th of a jug of milk. She also poured 20.5 ounces of milk into a bowl of cornflakes. If 25.5 ounces of milk remain in the jug, how much milk did the jug originally contain?

- 2) Nancy has a freshwater aquarium at home. She buys goldfish four more than twice the number of platies she bought last Sunday. She also buys 2 black mollies and a few guppies that amounted to one quarter of the total number of goldfish she bought. If there are 35 fish in all, how many goldfish did she buy?

- 3) A total of 119 golden tickets were sold for an NBA match. A hundred general tickets and 6 platinum tickets were also sold. The price of a general ticket was three-fourth the cost of the golden ticket. The price of a platinum ticket was twice that of the golden ticket. How much was a golden ticket priced at, if the total collection from ticket sales was \$6,592?

- 4) David bought a variety pack of delicious donuts from the famous Donut house for his daughters, Amy and Anna. Amy ate two-third of the pack and Anna devoured one-fourth of them. Finally David ate the remaining one donut. Find out the total number of donuts in the pack.

- 5) Robert earns \$512.75 less than the salary earned by Noel. John earns three times Robert's salary. If the total salary earned by them is \$47,645.25, how much salary do Robert earn?

Answer key**Multi-Step Equations - Fractions and Decimals**

Sheet 1

- 1) Danielle baked macaroni for her children for which she used up $\frac{1}{9}$ th of a jug of milk. She also poured 20.5 ounces of milk into a bowl of cornflakes. If 25.5 ounces of milk remain in the jug, how much milk did the jug originally contain?

51.75 ounces

- 2) Nancy has a freshwater aquarium at home. She buys goldfish four more than twice the number of platies she bought last Sunday. She also buys 2 black mollies and a few guppies that amounted to one quarter of the total number of goldfish she bought. If there are 35 fish in all, how many goldfish did she buy?

20 goldfish

- 3) A total of 119 golden tickets were sold for an NBA match. A hundred general tickets and 6 platinum tickets were also sold. The price of a general ticket was three-fourth the cost of the golden ticket. The price of a platinum ticket was twice that of the golden ticket. How much was a golden ticket priced at, if the total collection from ticket sales was \$6,592?

\$32

- 4) David bought a variety pack of delicious donuts from the famous Donut house for his daughters, Amy and Anna. Amy ate two-third of the pack and Anna devoured one-fourth of them. Finally David ate the remaining one donut. Find out the total number of donuts in the pack.

12 donuts

- 5) Robert earns \$512.75 less than the salary earned by Noel. John earns three times Robert's salary. If the total salary earned by them is \$47,645.25, how much salary do Robert earn?

\$9426.5

Multi-Step Equations - Fractions and Decimals

Sheet 2

- 1) In a local park, a few children were on the monkey bars. The number of children occupying the slides was one-eighth of the number of children playing on the monkey bars. 8 children were playing in the sandbox. If there are 35 children in all, how many children occupied the slides?

- 2) Ivan had 120 baseball cards. He gave some baseball cards to his brother, Nathan. Also, two-thirds of the number of cards given to Nathan were damaged and he had to discard them. If Ivan has 55 baseball cards now, how many cards did he give to Nathan?

- 3) Mrs. Telles bakes a turkey for Thanksgiving. Her family consumed 1/4 of the turkey. She gave 1/3 of the turkey to her neighbors. If the turkey originally weighed 12 pounds, how much did the turkey weigh after the family and neighbors had eaten?

- 4) There are two pear trees in a yard. The taller tree is two more than three times taller than the shorter tree. If the shorter tree is 14.5 feet, calculate the height of the taller tree.

- 5) A bake sale was held at Juvena High to raise funds for an NGO. The sale of maple pecan pies amounted to 15 more than half the lemon tarts that were sold. The number of brownie pops sold amounted to two-thirds of the sale of maple pecan pies. If 223 pieces were sold in all, how many lemon tarts were sold?

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Answer key**Multi-Step Equations - Fractions and Decimals**

Sheet 2

- 1) In a local park, a few children were on the monkey bars. The number of children occupying the slides was one-eighth of the number of children playing on the monkey bars. 8 children were playing in the sandbox. If there are 35 children in all, how many children occupied the slides?

3 children

- 2) Ivan had 120 baseball cards. He gave some baseball cards to his brother, Nathan. Also, two-thirds of the number of cards given to Nathan were damaged and he had to discard them. If Ivan has 55 baseball cards now, how many cards did he give to Nathan?

39 cards

- 3) Mrs. Telles bakes a turkey for Thanksgiving. Her family consumed 1/4 of the turkey. If she gave 1/2 of the turkey to her neighbors. If she has 1/4 of the turkey left, how much did the turkey originally weigh?

18.9 pounds

- 4) There are two pear trees in the yard. The taller tree is two more than three times the height of the shorter tree. If the taller tree is 14.5 feet, calculate the height of the shorter tree.

6.25 feet

- 5) A bake sale was held at Juvena High to raise funds for an NGO. The sale of maple pecan pies amounted to 15 more than half the lemon tarts that were sold. The number of brownie pops sold amounted to two-thirds of the sale of maple pecan pies. If 223 pieces were sold in all, how many lemon tarts were sold?

108 lemon tarts

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Multi-Step Equations - Fractions and Decimals

- 1) Susan visits a grocery store. She places a few pounds of cucumber in her shopping cart. The carrots she picked weighed 2.3 pounds more than cucumber. She also bought cuts of flank steak that was four times the weight of carrots. If the total weight of all items was 35.5 pounds, how much did the cuts of flank steak weigh?

- 2) A recipe calls for two and a half cups of water, some lemon extract and orange juice which is eight times that of the lemon extract. If the recipe requires 16 cups of orange juice, how much lemon extract is required to prepare the orangeade?

- 3) Michelle uses up 40.1 yards less than the amount of wall fabric used in the portico, she uses 7.5 yards in her son's room. For the hall, she uses 12.5 yards. How many yards of wall fabric did Michelle use in the living room?

- 4) Leslie has a voucher that she used to purchase a wallet that cost \$15.99. The voucher amounted to double the amount of the original price. How much was Leslie billed for a total of \$34.45 after the voucher was used?

- 5) The perimeter of a pool table is 368.4 inches. The length of the table is twice of three more than its width. Find the length of the table.

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Answer key**Multi-Step Equations - Fractions and Decimals**

Sheet 3

- 1) Susan visits a grocery store. She places a few pounds of cucumber in her shopping cart. The carrots she picked weighed 2.3 pounds more than cucumber. She also bought cuts of flank steak that was four times the weight of carrots. If the total weight of all items was 35.5 pounds, how much did the cuts of flank steak weigh?

25.2 pounds

- 2) A recipe calls for two and a half cups of water, some lemon extract and orange juice which is eight times that of the lemon extract. To make orangeade, 16 times as much of the amount mentioned in the recipe to make 35 cups of orangeade is required to prepare the

$\frac{1}{2}$ cup

- 3) Michelle uses up 40.1 yards less than the amount of wall fabric used in the portico, she uses 7.5 yards in her son's room. For the hall, she uses 1.5 yards. How many yards of wall fabric did Michelle use?

14.03 yards

- 4) Leslie has a voucher that she used to purchase a wallet that cost \$34.45. The voucher amounted to double the cost of the wallet. How much was Leslie billed for a total of

\$26.3

- 5) The perimeter of a pool table is 368.4 inches. The length of the table is twice of three more than its width. Find the length of the table.

124.8 inches

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