

Two-Step Equations - Fractions and Decimals

Sheet 1

- 1) Marion and her sister Elaine are saving up to buy a DSLR camera. Marion has saved up \$299.99 in her account. Elaine sets aside her weekly allowance over a five week period to buy the camera that costs \$699.99. Calculate Elaine's weekly allowance.

- 2) Jonas, his wife and their 3 children made a trip to the Indiana state fair. Jonas spent \$16 on entry tickets for adults. If he paid \$23.50 for the entry tickets in total, how much did the entry fee for each child cost?

- 3) Girls in the first grade account for one-third of the total strength of the class. 3 girls are absent today. Find the total strength of the class, if four girls attended class today.

- 4) On Monday, the school cafeteria made a collection of \$99.55 from paid lunch. The next day, 40 students ate at the cafeteria. If the collection of lunch money on Monday was \$19.95 more, how much did the school lunch cost?

- 5) Zoe put in 80 hours of work in July for which she is entitled to \$920.65. She also works 5 hours overtime. If she receives a paycheck of \$1030.45 for the month, how much is she paid for an hour of overtime work?

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

Sheet 1

- 1) Marion and her sister Elaine are saving up to buy a DSLR camera. Marion has saved up \$299.99 in her account. Elaine sets aside her weekly allowance over a five week period to buy the camera that costs \$699.99. Calculate Elaine's weekly allowance.

$$299.99 + 5x = 699.99 ; \$80$$

- 2) Jonas, his wife and their 3 children made a trip to the Indiana state fair. Jonas spent \$16 on entry tickets for adults. If he paid \$23.50 for the entry tickets in total, how much did the entry fee for each child cost?

$$16 + 3x = 23.5 ; \$2.5$$

- 3) Girls in the first grade account for one-third of the total strength of the class. 3 girls are absent today. Find the total strength of the class, if four girls attended class today.

$$\frac{1}{3}x - 3 = 4 ; 21 \text{ students}$$

- 4) On Monday, the school cafeteria made a collection of \$99.55 from paid lunch. The next day, 40 students ate at the cafeteria. If the collection of lunch money on Monday was \$19.95 more, how much did the school lunch cost?

$$99.55 - 40x = 19.95 ; \$1.99$$

- 5) Zoe put in 80 hours of work in July for which she is entitled to \$920.65. She also works 5 hours overtime. If she receives a paycheck of \$1030.45 for the month, how much is she paid for an hour of overtime work?

$$920.65 + 5x = 1030.45 ; \$21.96$$

Two-Step Equations - Fractions and Decimals

Sheet 2

- 1) Rhone purchases eggs from a local dairy farm. He finds 3 broken eggs. He uses half the remaining eggs to bake a few pancakes. If 5 eggs remain now, how many eggs did Rhone purchase from the farm?

- 2) Rick weighs 200.56 pounds. He began following a diet and knocked off a few pounds over a period of 3 months. He now weighs 150.56 pounds. If Rick is now double his sister's weight, how many pounds did he lose?

- 3) In an online practice test, 3.5 points were deducted for incorrect answers. If the score for each question was 1 point, how many questions were there in the test, how much did he score for each question?

- 4) Kerry takes up a job that requires him to pack 100 packages and one-fourth of the packages were damaged. If the truck contained 25 packages that were returned, how many packages were there in Kerry's original consignment?

- 5) Jennifer invites her friends over for a party. Her mother buys a value pack of party favors. She removes 2 damaged pieces from the entire lot and divides the rest equally in 10 goody bags. If each bag contains 7 party favors, how many party favors were there initially?

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

Sheet 2

- 1) Rhone purchases eggs from a local dairy farm. He finds 3 broken eggs. He uses half the remaining eggs to bake a few pancakes. If 5 eggs remain now, how many eggs did Rhone purchase from the farm?

$$\frac{1}{2}(x - 3) = 5 ; 13 \text{ eggs}$$

- 2) Rick weighs 200.56 pounds. He began following a diet and knocked off a few pounds over a period of 3 months. He now weighs 150.56 pounds. If Rick is now double his sister's weight, how many pounds did he lose?

$$200.56 - x =$$

- 3) In an online practice test, 3.5 points were deducted for incorrect answers. If the score for each question was 2 points, how much did he score for each question?

$$11x -$$

- 4) Kerry takes up a job that requires her to pack 5 packages and one-fourth of the packages that were returned. If the truck contains 200 packages, how many were there in Kerry's original consignment?

$$\frac{1}{4}x + 5 = 65 ; 240 \text{ packages}$$

- 5) Jennifer invites her friends over for a party. Her mother buys a value pack of party favors. She removes 2 damaged pieces from the entire lot and divides the rest equally in 10 goody bags. If each bag contains 7 party favors, how many party favors were there initially?

$$\frac{1}{10}(x - 2) = 7 ; 72 \text{ party favors}$$

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Two-Step Equations - Fractions and Decimals

Sheet 3

- 1) Ben puts up a pretzel cart outside Newport mall. 22 cinnamon pretzels and few salted pretzels were up for sale in the morning. One half of the total pretzels were sold out and 19 pretzels remained. How many salted pretzels did Ben bake that morning?

- 2) Mrs. Hayden buys a few yards of fleece fabric. She uses 4.56 yards to make fleece hats which amount to $\frac{1}{4}$ of the total. How many yards of fabric did she buy initially?

- 3) Alec spilled 8.56 fluid ounces of water from a pitcher. He transferred the water into 4 bottles. If each bottle originally contained 19.68 fluid ounces, how many bottles were full after the spill?

- 4) Ben plans to buy a rectangular lawn. The area measures 48 square yards. The width is 4.8 yards high. Its length is how many yards? What is the perimeter of the lawn measure?

- 5) Kenny takes a cab to the airport. He is charged \$2.56 per mile. Kenny pays the driver a total of \$59.72 for the trip which includes a tip of \$9.8. How many miles did Kenny travel to reach the airport?

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

Sheet 3

- 1) Ben puts up a pretzel cart outside Newport mall. 22 cinnamon pretzels and few salted pretzels were up for sale in the morning. One half of the total pretzels were sold out and 19 pretzels remained. How many salted pretzels did Ben bake that morning?

$$\frac{1}{2}(22 + x) = 19 ; 16 \text{ salted pretzels}$$

- 2) Mrs. Hayden buys a few yards of fleece fabric. She uses 4.56 yards to make fleece hats which amount to $\frac{1}{3}$ of the total. How many yards of fabric did she buy initially?

$$\frac{1}{3}(x - 4.56) = 4.56$$

- 3) Alec spilled 8.56 fluid ounces of water from a pitcher. He transferred the remaining water into 3 smaller pitchers. If each bottle originally contains 19.68 fluid ounces, how much water did he spill?

$$\frac{x - 8.56}{3} = 19.68$$

- 4) Ben plans to buy a rectangular lawn. The area measures 40.2 square yards. The width is 4.8 yards high. Its length is how many yards? What is the perimeter of the lawn measure?

$$\frac{1}{2}x \times 4.8 = 40.2 ; 16.75 \text{ yards}$$

- 5) Kenny takes a cab to the airport. He is charged \$2.56 per mile. Kenny pays the driver a total of \$59.72 for the trip which includes a tip of \$9.8. How many miles did Kenny travel to reach the airport?

$$2.56x + 9.8 = 59.72 ; 19.5 \text{ miles}$$

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