

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, 10 questions were asked. For each correct answer, 3.5 points were deducted for incorrect answers. If the score for each question was 10 points, how much did he score for each question?

- 4) Kerry takes up a job that requires her to pack 100 packages. She finds that 25 packages and one-fourth of the 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 time. If Rick is now 100.56 pounds, how many pounds did he lose?

$$200.56 - x = 100.56$$

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

$$11x - 3.5 = 11$$

- 4) Kerry takes up a truckload of packages and one-fourth of the packages were damaged. If the truck contained 280 packages, how many packages 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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