

Two-Step Equations - Integers

Sheet 1

- 1) Dalia bought a few swirl marbles and divided it equally among four of her friends and her brother, Jake. While playing, Jake lost 2 marbles and has only 7 marbles at present. Find how many marbles did Dalia buy in all.

- 2) A bus departed from New York at 11 pm with 44 passengers. An hour later, a few passengers got off at New Jersey. The number of passengers who boarded the bus at New Jersey were twice the number of passengers who got off the bus. If the bus has 50 passengers now, how many passengers got off at New Jersey?

- 3) Clara lends half her collection of formal attires to her sister, Susan. Clara then buys four more attires. If she has 12 attires now, how many attires did Clara had initially?

- 4) The Rock Zoo nurses 37 species of big cats. Recently, a few species of big cats were sponsored to other zoos around the country. The zoo now nurses only 25 species. How many species of big cats were sponsored to other zoos?

- 5) Megan and four of her friends plan to go for a long drive. She buys 12 bottles of frappe and a few bottles of orange juice from a supermarket. The total number of bottles they have are four times that of orange juice bottles. How many bottles of orange juice did Megan buy?

Answer key**Two-Step Equations - Integers**

Sheet 1

- 1) Dalia bought a few swirl marbles and divided it equally among four of her friends and her brother, Jake. While playing, Jake lost 2 marbles and has only 7 marbles at present. Find how many marbles did Dalia buy in all.

$$\frac{x}{5} - 2 = 7 ; 45 \text{ marbles}$$

- 2) A bus departed from New York at 11 pm with 44 passengers. An hour later, a few passengers got off at New Jersey. The number of passengers who boarded the bus at New Jersey were twice the number of passengers who got off the bus. If the bus has 50 passengers now, how many passengers got off at New Jersey?

$$44 - x + 2x = 50 ; 6 \text{ passengers}$$

- 3) Clara lends half her collection of formal attires to her sister, Susan. Clara then buys four more attires. If she has 12 attires now, how many attires did Clara had initially?

$$\frac{x}{2} + 4 = 12 ; 16 \text{ attires}$$

- 4) The Rock Zoo nurses 37 species of big cats. Recently, a few species of big cats were sponsored to other zoos around the country. The zoo now nurses only 25 species. How many species of big cats were sponsored to other zoos?

$$37 - x = 25 ; 12 \text{ species}$$

- 5) Megan and four of her friends plan to go for a long drive. She buys 12 bottles of frappe and a few bottles of orange juice from a supermarket. The total number of bottles they have are four times that of orange juice bottles. How many bottles of orange juice did Megan buy?

$$12 + x = 4x ; 4 \text{ bottles}$$

Two-Step Equations - Integers

Sheet 2

- 1) Brad, a teenager, saves up his monthly allowance over a period of six months to buy a pair of high-resolution headphones. He lends his friend, Jorge \$10 from his savings. If Brad has \$272 now, calculate his monthly allowance.

- 2) Sam divided his salary equally into two. One part was saved for his family and the other part was for his watch. If he has \$1,200 left, how much did he have to purchase a watch?

- 3) A total of 750 students attended a school assembly. The number of girls was 20 more than the number of boys. How many boys attended?

- 4) Ella bought two boxes of candy bars from a store. If her total purchase was \$12.00 and each box cost \$3.00, how many candy bars did she buy?

- 5) Payton runs a kiosk on Route 66. Half the canned drinks in stock were sold out and empty cans were sent for recycling. Payton bought 68 more canned drinks to restock the kiosk. If there is a total of 200 cans now, how many canned drinks were in stock initially?

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Answer key**Two-Step Equations - Integers**

Sheet 2

- 1) Brad, a teenager, saves up his monthly allowance over a period of six months to buy a pair of high-resolution headphones. He lends his friend, Jorge \$10 from his savings. If Brad has \$272 now, calculate his monthly allowance.

$$6x - 10 = 272 ; \$47$$

- 2) Sam divided his salary equally into two. One part was saved for his family and the other part was for his watch. If he has \$200 left, calculate his salary.

$$\frac{x}{2} - 200 = 0$$

- 3) A total of 750 students attended a school assembly. The number of girls was 200 more than the number of boys. How many boys attended?

$$x + 2x = 750$$

- 4) Ella bought two boxes of candy bars from a store. Each box contains 15 candy bars. If her total purchase was \$45, how much did each candy bar cost?

$$15 + 3x = 45 ; \$10$$

- 5) Payton runs a kiosk on Route 66. Half the canned drinks in stock were sold out and empty cans were sent for recycling. Payton bought 68 more canned drinks to restock the kiosk. If there is a total of 200 cans now, how many canned drinks were in stock initially?

$$\frac{x}{2} + 68 = 200 ; 264 \text{ cans}$$

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Two-Step Equations - Integers

Sheet 3

- 1) The bartender of a poolside bar prepares 96 fluid ounces of mocktail by blending the juice of cranberries and oranges. He uses three times the amount of cranberry juice than orange juice to prepare the mocktail. He also adds 24 ounces of lemon extract. How many fluid ounces of orange juice was used in all?

- 2) Abigail invites her friends over for a pajama party. She bought 12 tubs of popcorn for her friends. If 5 tubs of popcorn were used for her friends, how many tubs of popcorn were left with her friends?

- 3) Bryan has a collection of baseball cards. He has 15 cards now, how many cards did he have initially with his brother, Jude. Bryan also has 8 baseball cards now, how many did he have initially?

- 4) Jane ordered a box of 24 boxes of books. She returned 28 boxes of books. How many boxes were used for each of the four boxes? Jane is relocating to Atlanta. She has 24 boxes of books. How many boxes were used for each of the four boxes? She has 28 boxes of books. How many boxes were used for each of the four boxes? She has 24 boxes of books. How many boxes were used for each of the four boxes? She has 28 boxes of books. How many boxes were used for each of the four boxes?

- 5) The perimeter of a rectangular carton is 60 inches. If the width of the carton is 11 inches, calculate its length.

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Sheet 3

- 1) The bartender of a poolside bar prepares 96 fluid ounces of mocktail by blending the juice of cranberries and oranges. He uses three times the amount of cranberry juice than orange juice to prepare the mocktail. He also adds 24 ounces of lemon extract. How many fluid ounces of orange juice was used in all?

$$\underline{3x + x + 24 = 96 ; 18 \text{ fluid ounces}}$$

- 2) Abigail invites her friends over for a pajama party. She bought 12 tubs of popcorn for her friends. If 5 tubs of popcorn were used for her friends, how many tubs of popcorn were left with her friends?

$$\underline{12 - 5 = 7}$$

- 3) Bryan has a collection of baseball cards. He has 12 cards now, how many cards did he have initially with his brother, Jude. Bryan also has 8 baseball cards now, how many cards did he have initially?

$$\underline{\frac{x}{2} + 2 = 12}$$

- 4) Jane ordered a box of 48 boxes of tissues. She returned 28 boxes of tissues. If 5 boxes were used for each person, how many boxes were left from the store initially?

$$\underline{\frac{x - 28}{4} = 5 ; 48 \text{ boxes}}$$

- 5) The perimeter of a rectangular carton is 60 inches. If the width of the carton is 11 inches, calculate its length.

$$\underline{60 = 2(11 + x) ; 19 \text{ inches}}$$

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