

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 had 15 cards last year. This year he has 25 cards now, how many cards did he have last year?

- 4) Jane ordered a box of 24 boxes of tissues. She returned 28 boxes of tissues. How many boxes of tissues 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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Answer key**Two-Step Equations - Integers**

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- 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 over?

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

- 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 cards did he have initially?

$$\underline{\frac{x}{2} + 2 = 15}$$

- 4) Jane ordered a box of 48 boxes of tissues. She returned 28 boxes of tissues. How many boxes of tissues were used for each of the four boxes? (relocating to Atlanta. boxes equally for packed. If 5 boxes 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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