

## One-Step Equations - Fractions & Decimals

Add/Sub: S1

- 1) Selena is baking chocolate chip cookies. The recipe demands  $2\frac{2}{3}$  cups of semi-sweet chocolate chips. If she had already put in  $1\frac{5}{9}$  cups into the batter, how many more cups of chocolate chips does she need to add to the recipe?

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- 2) Rose has two baskets; one contains apples and the other contains bananas. Together, the baskets weigh 15 pounds. The basket of apples weighs 8 pounds. How much does the basket of bananas weigh, if the apples weigh 8 pounds?

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- 3) A metal manufacturer is producing cylindrical workpieces. The length of the workpiece at the end of the production process is 7.8 inches. How much should the manufacturer reduce the length of a workpiece measured 7.8 inches by 0.3 inches to be shortened?

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- 4) Alice has  $x$  dollars for her grandmother's birthday. She spent  $\frac{1}{3}$  of the money to buy medicines for her grandmother. She has \$161.23 left. How much money did she have initially?

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- 5) On Saturday night, Clara watched a horror movie in a theater. The movie had a running time of  $2\frac{2}{3}$  hours. When she decided to leave midway, the remaining running time of the movie was  $1\frac{1}{6}$  hours. How long did Clara sit through the horror movie?

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**Answer key****One-Step Equations - Fractions & Decimals**

Add/Sub: S1

- 1) Selena is baking chocolate chip cookies. The recipe demands  $2\frac{2}{3}$  cups of semi-sweet chocolate chips. If she had already put in  $1\frac{5}{9}$  cups into the batter, how many more cups of chocolate chips does she need to add to the recipe?

$$x + 1\frac{5}{9} = 2\frac{2}{3} ; 1\frac{1}{9} \text{ cups}$$


---

- 2) Rose has two baskets; one contains apples and the other contains bananas. Together, the baskets weigh 5.34 pounds. If the apples weigh 2.34 pounds, how much does the basket of bananas weigh, if the apples weigh 2.34 pounds?

$$x + 2.34 = 5.34$$


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- 3) A metal manufacturer is producing cylindrical workpieces. The length of a workpiece is 7.8 inches. If the manufacturer wants to reduce the length of a workpiece by 1.8 inches, how much shorter will the workpiece be?

$$x + 7.8 = 1.8$$


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- 4) Alice has x dollars. She wants to buy medicines for her grandmother. The medicines cost \$161.23. How much more money does she need?

$$x - 35.31 = 161.23 ; \$196.54$$


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- 5) On Saturday night, Clara watched a horror movie in a theater. The movie had a running time of  $2\frac{2}{3}$  hours. When she decided to leave midway, the remaining running time of the movie was  $1\frac{1}{6}$  hours. How long did Clara sit through the horror movie?

$$x + 1\frac{1}{6} = 2\frac{2}{3} ; 1\frac{1}{2} \text{ hours}$$


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## One-Step Equations - Fractions & Decimals

Add/Sub: S2

- 1) Judy needs  $2\frac{3}{8}$  yards of flannel fabric to sew a skirt. If she is able to procure only  $\frac{3}{8}$  yards of the fabric required, how much more fabric does she need to stitch the skirt?

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- 2) On Thanksgiving Day, Emily serves portions of pumpkin pies to family and friend. She has  $\frac{5}{6}$  th of the pumpkin pies remaining. What portion of the pumpkin pies remain?

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- 3) Ross went on a tent. His friends insisted that he build a tent. His friends insisted that he build a tent. His friends insisted that he build a tent. What was the in-

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- 4) Kathy purchases an eyebrow pencil. The price of the eyebrow pencil is \$14.13, what is the price of the eyebrow pencil?

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- 5) The Rock zoo nurses a variety of animals, which is spread over a vast area. Recently, 17.95 acres were cleared for horticulture. The area in which the animals are kept now is around 969.36 acres. What is the area of the Rock zoo?

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**Answer key****One-Step Equations - Fractions & Decimals**

Add/Sub: S2

- 1) Judy needs  $2\frac{3}{8}$  yards of flannel fabric to sew a skirt. If she is able to procure only  $\frac{3}{8}$  yards of the fabric required, how much more fabric does she need to stitch the skirt?

$$x + \frac{3}{8} = 2\frac{3}{8} ; 2 \text{ yards}$$

- 2) On Thanksgiving Day, Emily serves portions of pumpkin pies to family and friend. She has  $\frac{5}{6}$  th of the pumpkin pies remaining. What portion of the pumpkin pies did she serve?

$$x + \frac{1}{6} = \frac{5}{6} ;$$

- 3) Ross went on a tent. His friends insisted that he buy a tent. His friends said the tent was 51.4 inches high. What was the price of the tent?

$$x - 16.14 = 51.4$$

- 4) Kathy purchases a variety of animals, which is spread over a vast area. Recently, 17.95 acres were cleared for horticulture. The area in which the animals are kept now is around 969.36 acres. What is the area of the Rock zoo?

$$x + 6.94 = 14.13 ; \$7.19$$

- 5) The Rock zoo nurses a variety of animals, which is spread over a vast area. Recently, 17.95 acres were cleared for horticulture. The area in which the animals are kept now is around 969.36 acres. What is the area of the Rock zoo?

$$x - 17.95 = 969.36 ; 987.31 \text{ acres}$$

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## One-Step Equations - Fractions & Decimals

Add/Sub: S3

- 1) A pitcher contains  $2\frac{2}{3}$  cups of mint juice. Samantha wants to turn it into mint lemonade for which she adds some lemon extract and water. If the pitcher now holds  $3\frac{1}{3}$  cups of mint lemonade, what was the quantity of lemon extract and water added to the mint juice?

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- 2) Andrew has an iron rod which measures  $45\frac{1}{4}$  inches. He cuts the rod to tensile test it. If the rod mea \_\_\_\_\_ the iron rod shortened?

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- 3) A research team \_\_\_\_\_efs are located at a depth of 245.67 \_\_\_\_\_ 116.39 feet away from the ocean floor, \_\_\_\_\_ the coral reef?

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- 4) Carol fills her fuel \_\_\_\_\_hen she gets back home, the fuel g \_\_\_\_\_ . One-third of the fuel tank was used u \_\_\_\_\_ fill at the gas station?

---

- 5) The weekly income of Mathew's family is \$941.67. His son, Romney has taken a leave from work. If the family's weekly income is \$540.95 now, how much did Romney earn per week before taking a leave?

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**Answer key****One-Step Equations - Fractions & Decimals**

Add/Sub: S3

- 1) A pitcher contains  $2\frac{2}{3}$  cups of mint juice. Samantha wants to turn it into mint lemonade for which she adds some lemon extract and water. If the pitcher now holds  $3\frac{1}{3}$  cups of mint lemonade, what was the quantity of lemon extract and water added to the mint juice?

$$x + 2\frac{2}{3} = 3\frac{1}{3}; \frac{2}{3} \text{ cups}$$


---

- 2) Andrew has an iron rod which measures  $45\frac{1}{4}$  inches. He cuts the rod to tensile test it. If the rod mea \_\_\_\_\_ the iron rod shortened?

$$x + 39\frac{4}{5} = 45\frac{1}{4}$$


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- 3) A research team \_\_\_\_\_ efs are located at a depth of 245.67 \_\_\_\_\_ 116.39 feet away from the ocean floor, \_\_\_\_\_ the coral reef?

$$x + 116.39 = 245.67$$


---

- 4) Carol fills her fuel \_\_\_\_\_ . One-third of the fuel tank was used u \_\_\_\_\_ when she gets back \_\_\_\_\_ fill at the gas station?

$$x - \frac{1}{3} = \frac{1}{3}; \text{ two-third of the tank.}$$


---

- 5) The weekly income of Mathew's family is \$941.67. His son, Romney has taken a leave from work. If the family's weekly income is \$540.95 now, how much did Romney earn per week before taking a leave?

$$x + 540.95 = 941.67; \$400.72$$


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