

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

Mul/Div: S1

- 1) A chef uses  $\frac{1}{7}$  th of a sack of flour that weighs 2.26 pounds to make a batch of chicken nuggets. What is the total weight of the sack?

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- 2) Mr. Darcy makes a stop at the N gas station. He fills 14 gallons of gasoline in his Honda Odyssey. \_\_\_\_\_ the maximum capacity of the fuel tank?

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- 3) Laura's height is \_\_\_\_\_ inches tall. How tall is Kevin?

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- 4) Juneau, Alaska recorded \_\_\_\_\_ inches of snow on Christmas Day. If Juneau recorded \_\_\_\_\_ on Monday?

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- 5) A truck carries 30 bags of avocados to a local supermarket. If each bag weighs 7.65 pounds, what is the total weight loaded into the truck?

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

Mul/Div: S1

- 1) A chef uses  $\frac{1}{7}$  th of a sack of flour that weighs 2.26 pounds to make a batch of chicken nuggets. What is the total weight of the sack?

$$\frac{1}{7}x = 2.26 ; 15.82 \text{ pounds}$$


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- 2) Mr. Darcy makes a stop at the Niles gas station. He fills 14 gallons of gasoline in his Honda Odyssey. The maximum capacity of the fuel tank?

$$\frac{2}{3}x = 14 ;$$


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- 3) Laura's height is  $\frac{5}{9}$  of Kevin's height. Kevin is 39 inches tall. How tall is Laura?

$$\frac{5}{9}x = 39 ;$$


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- 4) Juneau, Alaska recorded 17 inches of snow on Christmas Day. If the snow on Monday was  $\frac{1}{4}$  of the snow on Christmas Day, how much did it snow on Monday?

$$\frac{1}{4}x = 17 ; 68 \text{ inches}$$


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- 5) A truck carries 30 bags of avocados to a local supermarket. If each bag weighs 7.65 pounds, what is the total weight loaded into the truck?

$$\frac{x}{7.65} = 30 ; 229.5 \text{ pounds}$$


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## One-Step Equations - Fractions & Decimals

Mul/Div: S2

- 1) Raoul is training hard for a 10k run. He takes 42.85 minutes on to complete 5 laps around the local park. How much time on an average did he need to complete a single lap?

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- 2) On Labor Day, Ross and his brother went fishing to the Chocomaunt River. Ross took home 15 catfish and his brother took home 12. What was the total catch made?

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- 3) An adult gopher is 36.8 inches in length. This is four times the length of its birth. Calculate the length of its birth.

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- 4) John goes to school every day. The width of the table is half its length.

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- 5) Diana gift-wrapped 9 Christmas gifts for her friends. She requires a total of 251.46 inches of satin ribbon to make floral bows. What length of satin ribbon is used to make a floral bow?

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

Mul/Div: S2

- 1) Raoul is training hard for a 10k run. He takes 42.85 minutes on to complete 5 laps around the local park. How much time on an average did he need to complete a single lap?

$$5x = 42.85 ; 8.57 \text{ minutes}$$

- 2) On Labor Day, Ross and his brother went fishing to the Chocomaunt River. Ross took home 15 catfish and his brother took home 12. What was the total catch made by both of them?

$$\frac{3}{4}x = 15,$$

- 3) An adult gopher is 36.8 inches in length. This is four times the length of its birth. Calculate the length of the gopher at birth.

$$4x = 36.8$$

- 4) John goes to school every day. He has a table in his room that is 38 inches long. The width of the table is half its length.

$$\frac{1}{2}x = 38 ; 76 \text{ inches}$$

- 5) Diana gift-wrapped 9 Christmas gifts for her friends. She requires a total of 251.46 inches of satin ribbon to make floral bows. What length of satin ribbon is used to make a floral bow?

$$9x = 251.46 ; 27.94 \text{ inches}$$

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## One-Step Equations - Fractions & Decimals

Mul/Div: S3

- 1) JSR steel company is in the business of recycling metals. A solid metal sphere is melted and recast (without wastage) into 24 identical smaller spheres. If the solid metal sphere originally weighed 246.24 pounds, how much will each small sphere weigh?

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- 2) Over the weekends, Kenny and John mow lawns in the neighborhood that measure  $100 \times 200$  feet. If it takes them 172.38 minutes to mow 13 such lawns, how long does it take them to mow 1 lawn.

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- 3) Every day John travels 15 miles to work in his car. He drinks one-fourth of a gallon of juice on the train, how many gallons of juice does he drink for work. If a gallon contains 128 ounces, how many ounces of juice does he drink daily contain?

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- 4) Jane wants to determine the length of a string. She cuts it into 16 pieces, each measuring 38.4 inches, what is the total length of the string? If she has a ball of string and she uses 1/4 of the string measured

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- 5) Yvonne buys a pack of multicolored glass beads to make a necklace for her daughter. She uses 27 beads for the necklace which is three-seventh of the total pack. How many glass beads did the pack originally contain?

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

Mul/Div: S3

- 1) JSR steel company is in the business of recycling metals. A solid metal sphere is melted and recast (without wastage) into 24 identical smaller spheres. If the solid metal sphere originally weighed 246.24 pounds, how much will each small sphere weigh?

$$\underline{24x = 246.24 ; 10.26 \text{ pounds}}$$

- 2) Over the weekends, Kenny and John mow lawns in the neighborhood that measure  $100 \times 20$  feet. If they can mow 13 such lawns in 172.38 minutes, how long will it take them to mow one lawn?

$$\underline{13x = 172.38}$$

- 3) Every day John takes a train to work. He drinks one-fourth of a gallon of juice on the train, how many gallons of juice does he drink in a week?

$$\underline{\frac{1}{4}x = 8.45 ; 33.8}$$

- 4) Jane wants to determine the length of a ball of string and she cuts it into 16 pieces. Each piece is 38.4 inches long, what is the total length of the string?

$$\underline{16x = 38.4 ; 2.4 \text{ inches}}$$

- 5) Yvonne buys a pack of multicolored glass beads to make a necklace for her daughter. She uses 27 beads for the necklace which is three-seventh of the total pack. How many glass beads did the pack originally contain?

$$\underline{\frac{3}{7}x = 27 ; 63 \text{ glass beads}}$$

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