Word Problems on Dividing Fractions

MATH MONKS

Solve each problem and reduce the answer to the simplest form.

1. Jack needs to make sandwiches for a class picnic with $\frac{2}{9}$ of a kilogram of sugar. If each sandwich needs $\frac{3}{18}$ of a kilogram of sugar, then how many total sandwiches can be made?

2. John has a piece of metal rod that is $\frac{3}{4}$ of a meter long. He needs to cut pieces from the rod that are $\frac{5}{16}$ of a meter long. How many pieces can John cut?

3. $\frac{3}{7}$ of a 1 liter container is filled with water. If a mug can contain $\frac{9}{84}$ of a liter, then how many mugs of water are needed to fill up the bucket.

4. A box of table tennis balls weighs $\frac{5}{9}$ of a kg. If each ball weighs $\frac{15}{81}$ of a kg, then how many balls are there in the box?

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Answers.

1. Jack needs to make sandwiches for a class picnic with $\frac{2}{9}$ of a kilogram of sugar. If each sandwich needs $\frac{3}{18}$ of a kilogram of sugar, then how many total sandwiches can be made?

Ans: $1\frac{1}{3}$

2. John has a piece of metal rod that is $\frac{3}{4}$ of a meter long. He needs to cut pieces from the rod that are $\frac{5}{16}$ of a meter long. How many pieces can John cut?

Ans: $2\frac{2}{5}$

3. $\frac{3}{7}$ of a 1 liter container is filled with water. If a mug can contain $\frac{9}{84}$ of a liter, then how many mugs of water are needed to fill up the bucket.

Ans: 4

4. A box of table tennis balls weighs $\frac{5}{9}$ of a kg. If each ball weighs $\frac{15}{81}$ of a kg, then how many balls are there in the box?

Ans: 6