Fraction word problems

Grade 5 Word Problems Worksheets

Read and answer each question:

Emily works at the coffee shop.

1. The coffee cups can hold \( \frac{2}{9} \) of a pint of liquid. If Emily pours \( \frac{2}{3} \) of a pint of coffee into a cup, how much milk can a customer add?

2. The capacity of the two milk pitchers on the counter is \( \frac{9}{10} \) liter each. One pitcher has \( \frac{2}{5} \) of a liter of milk in it and the other pitcher has \( \frac{5}{12} \) of a liter milk in it. How much milk is there altogether?

3. Each large cookie is \( \frac{5}{6} \) oz and each small cookie is \( \frac{4}{9} \) oz. What is the total weight of 2 large cookies and 1 small cookie?

4. The coffee shop also sells small bags of coffee beans. The bags come in two sizes: \( \frac{5}{6} \) kilogram and \( \frac{7}{12} \) kilogram. How much more coffee does the bigger bag have?

5. There were two cheesecakes in the fridge. The first cheesecake was cut into 16 slices and there are 3 slices left. The other cheesecake was cut into 10 slices and 4 slices were sold. How much cake is left in the fridge?

6. There is a bag of sugar in the storage room. The bag contained \( \frac{7}{5} \) kilograms of sugar. The chef filled up an empty can with \( \frac{1}{10} \) kilogram of sugar and then used \( \frac{3}{20} \) of a kilogram of sugar for a cake. How much sugar was left in the bag?
Answers

1. \[\frac{7}{9} - \frac{2}{3} = \frac{7}{9} - \frac{6}{9} = \frac{1}{9}\]
   
   The customer can put in \(\frac{1}{9}\) of a pint of milk in the cup.

2. \[\frac{3}{8} + \frac{5}{12} = \frac{19}{24}\]
   
   There is \(\frac{19}{24}\) of a liter of milk altogether.

3. \[\frac{5}{6} + \frac{5}{6} + \frac{4}{9} = 2 \frac{1}{9}\]
   
   The total weight of 2 large cookies and 1 small cookie is \(2 \frac{1}{9}\) oz.

4. \[\frac{4}{5} - \frac{7}{12} = \frac{13}{60}\]
   
   The bigger bag has \(\frac{13}{60}\) kilogram more coffee beans than the smaller bag.

5. \[\frac{3}{16} + \frac{6}{10} = \frac{63}{80}\]
   
   There is \(\frac{63}{80}\) of a cheesecake left in the fridge.

6. \[\frac{4}{5} - \frac{1}{10} - \frac{3}{20} = \frac{11}{20}\]
   
   \(\frac{11}{20}\) kilograms of sugar was left in the bag.