

Addition and Subtraction with Fractions and Mixed Numbers

Solve. Be sure to SHOW YOUR WORK!!!

1) Mary is making new pillows for her couch. She needs $\frac{7}{8}$ yard of fabric for one pillow and $\frac{5}{8}$ yard for another pillow. How many yards does she need for both pillows?

2) Riley bought $2\frac{11}{16}$ yard of fabric for a quilt. He only used $1\frac{5}{16}$ yard to make his quilt. How much fabric does he have left over?

3) Frank is baking an apple pie. He needs $\frac{3}{4}$ cup of sugar for the filling and $\frac{3}{8}$ cup of sugar for the topping. How much sugar does he need in all?

4) Marta made vegetable soup for dinner. She used $4\frac{1}{2}$ cups of water, $2\frac{3}{4}$ cups of broth and $1\frac{3}{4}$ cups of tomato juice. How many cups of liquid did she use?

5) Charlie went to the grocery store 3 times this week. He spent $\frac{3}{4}$ hour on Monday, $1\frac{1}{6}$ hour on Wednesday and $\frac{2}{3}$ hour on Saturday. How long was he at the grocery store this week?

6) Jared had $\frac{2}{3}$ of a Hershey bar left after lunch. He ate $\frac{1}{2}$ of a candy bar on his way home. How much candy bar is left?

7) Rick is taking pictures of the Grand Canyon. He has used $\frac{3}{8}$ roll of film.

He brought $5\frac{1}{2}$ rolls of film to use.

How many rolls does he have left to take pictures with?

8) At Marshall High School, $\frac{3}{10}$ of the Pep Squad members are Seniors, $\frac{2}{5}$ are Juniors, $\frac{1}{5}$ are Sophomores and the rest are Freshmen. What fraction of the Pep Squad Members are Freshmen?

9) William, Tim and David helped raise money by volunteering in their school's *Run for the Heart* race. William ran 2 miles

and Tim ran $1\frac{1}{4}$ miles. David ran $\frac{3}{4}$ mile

less than the total distance William and Tim ran together. Which number sentence can be used to find D, the number of miles David ran?

A $D = 2 - 1\frac{1}{4} - \frac{3}{4}$

B $D = (2 + 1\frac{1}{4}) - \frac{3}{4}$

C $D = 1\frac{1}{4} - \frac{3}{4}$

D $D = (2 + 1\frac{1}{4}) + \frac{3}{4}$

10) Kendra baked $4\frac{1}{2}$ dozen cookies

and gave $1\frac{2}{3}$ dozen cookies to her family.

She took the rest of the cookies to school to share with friends. Lola baked $1\frac{3}{4}$

dozen cookies and took them to school to share with friends. Which number sentence can be used to find how many dozens of cookies the 2 girls took to school in all?

A $4\frac{1}{2} - 1\frac{2}{3} + 1\frac{3}{4}$

B $4\frac{1}{2} + 1\frac{2}{3} + 1\frac{3}{4}$

C $1\frac{2}{3} + 1\frac{3}{4}$

D $1\frac{2}{3} + 1\frac{3}{4} + 2$