Read and answer each question. Show your work!

Adding and Subtracting Fractions Word Problems #2

1. A cake recipe requires 1 2/3 cup of sugar for the frosting and 2/3 cup of sugar for the cake. How much sugar is that altogether?

2. 1/10 of the M&M's in a bag are red and 3/10 are blue. What fraction of all the M&M's are red and blue?

3. You give 2/7 of a pan of brownies to Susan and 1/7 of the pan of brownies to Patrick. How much of the pan of brownies did you give away? How much do you have left?

4. You go out for a long walk. You walk 3/4 mile and then sit down to take a rest. Then you walk 1/4 of a mile. How far did you walk altogether?

5. Pam walks 7/8 of a mile to school. Paul walks 3/8 of a mile to school. How much farther does Pam walk than Paul?

6. A school wants to make a new playground by cleaning up an abandoned lot that is shaped like a rectangle. They give the job of planning the playground to a group of students. The students decide to use 3/8 of the playground for a basketball court and 4/8 of the playground for a soccer field. How much is left for the swings and play equipment?

Answers

1. 1 2/3 + 2/3 = 1 4/3. Since 4/3 is also 1 1/3, we add 1 + 1 1/3 to get 2 1/3
   That is 2 1/3 cups of sugar.

2. 1/10 + 3/10 = 4/10, which simplifies to 2/5.
   There are 4/10 (or 2/5) total.

3. You gave away 2/7 + 1/7 = 3/7. You started with 7/7 (1 whole), so you have 7/7 – 3/7 = 4/7 left.
   You have away 3/7 and have 4/7 left.

4. 3/4 + 1/4 = 4/4, which simplifies to 1
   You walked 4/4 (or 1) mile.

5. 7/8 – 3/8 = 4/8, which simplifies to 1/2
   Pam walks 4/8 (or ½) of a mile farther.

6. They use 3/8 + 4/8 = 7/8. They start with 8/8 (1), so 8/8 – 7/8 = 1/8 is left.
   1/8 is left for swings and play equipment.