

Name: Class:

Adding and Subtracting Fractions with Like Denominators Word Problems

a.

In Glory's sports club, $\frac{2}{24}$ of the members like volley ball, $\frac{4}{24}$ of the members like soccer and $\frac{1}{24}$ of the members like basketball.

What fraction of the members doesn't like any game?

b.

Mr. Davis sold out $\frac{5}{18}$ of a 50 kg bag of sugar to one of his customers, Mrs. James came and borrowed $\frac{3}{18}$ of the 50 kg bag of sugar, and his son came and took $\frac{1}{18}$ of the bag.

How much of the bag of sugar is Mr. Davis left with?

c.

Little Delilah just got a very beautiful doll house. The doll house came with a playground for children. She used $\frac{6}{18}$ of a playground for placing a merry-go-round for her dolls, $\frac{4}{18}$ of a playground for a slide for her dolls.

How much of the playground is left for spring rider, sandbox, swingset, and trapeze rings?

d.

Tanner bought $\frac{4}{16}$ of a kilogram of Jasmine rice, $\frac{3}{16}$ of a kilogram Brown rice and $\frac{4}{16}$ kilogram of Basmati rice.

How many of a kilogram of rice did he buy in all?

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- a. Fraction of the members that like basketball = $\frac{2}{24}$
 Fraction of the members that like soccer = $\frac{4}{24}$
 Fraction of the members that like volley ball = $\frac{1}{24}$
 Fraction of the members that like all the games =
 Fraction of the members that like basketball + Fraction of the members that like soccer
 + Fraction of the members that like volley ball.

$$\frac{2}{24} + \frac{4}{24} + \frac{1}{24} = \frac{2+4+1}{24} = \frac{7}{24}$$

- Fraction of the members that don't like all the games =
 1 - Fraction of the members that like all the games

$$1 - \frac{7}{24} = \frac{(1 \times 24) - 7}{24} = \frac{24-7}{24} = \frac{17}{24}$$

So, $\frac{17}{24}$ of the members likes all games.

- b. Mr. Davis is left with $\frac{1}{2}$ of the 50 kg bag of sugar.

- c. $\frac{4}{9}$ of the playground is left for spring rider, sandbox, swingset, and trapeze rings.

- d. So, he bought $\frac{11}{16}$ kilograms of rice in all.