

Name: Class:

Adding and Subtracting Fractions with Like Denominators Word Problems

a.

Riley mixed $\frac{10}{32}$ kilogram of Jasmine rice, $\frac{5}{32}$ kilogram Brown rice and $\frac{9}{32}$ kilogram of Basmati rice.

How many more kilograms of Brown rice and Basmati rice are there in the mix than Jasmine rice?

b.

Mr. Davis sold out $\frac{5}{17}$ of a sack of sugar to one of his customers, Mrs. Hailey came and borrowed $\frac{2}{17}$ from the same sack of sugar, and his son came and took $\frac{5}{17}$ of the sack of sugar.

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

c.

Archer, Riley, and Manuel ordered chocolate cake. Manuel ate $\frac{8}{23}$ of the cake, and Riley $\frac{13}{23}$.

What fraction of the cake did Archer eat?

d.

Lean bought $\frac{4}{14}$ kilogram of maple syrup, $\frac{2}{14}$ kilogram orange sirup rice and $\frac{11}{14}$ kilogram of strawberry sirup.

How many more kilograms of strawberry syrup did she buy than maple and orange syrup?

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- a. Quantity of Jasmine rice in the mix = $\frac{10}{32}$ kilogram
 Quantity of Brown rice in the mix = $\frac{5}{32}$ kilogram
 Quantity of Basmati rice in the mix = $\frac{9}{32}$ kilogram

Number of kilograms of Brown and Basmati rice in the mix =
 quantity of brown rice + quantity of Basmati rice

$$\frac{5}{32} + \frac{9}{32} = \frac{5+9}{32} = \frac{14}{32} = \frac{7 \times 2}{16 \times 2} = \frac{7}{16}$$

Therefore, quantity of more Brown and Basmati rice than Jasmine rice in the mix =
 number of kilograms of Brown and Basmati rice - quantity of Jasmine rice

$$\frac{7}{16} - \frac{10}{32} = \frac{(7 \times 2) - 10}{32} = \frac{14 - 10}{32} = \frac{4}{32} = \frac{1 \times 4}{8 \times 4} = \frac{1}{8}$$

So, he mixed $\frac{1}{8}$ kilogram of more Brown rice and Basmati rice than Jasmine rice

- b. Mr. Davis is left with $\frac{5}{17}$ of a sack of sugar

- c. Archer ate $\frac{2}{23}$ of the cake

- d. He bought $\frac{5}{14}$ kilogram of more strawberry sirop than maple and orange sirup.