Name: .... Class: ....

Add, subtract, multiply, and divide fractions and mixed numbers: word problems

a. Mr. and Mrs. James are travelling for a christmas holiday. Mrs. James has $10\frac{1}{4}$ kg of baggage. Mr. James has $8\frac{1}{12}$ kg of baggage. How many kilograms of baggage do they have in all?

b. Melvin is an electrical engineer. He was offered a job to wire Mrs. Johnson's house. He has $4\frac{7}{8}$ cm of wire. He needs only $3\frac{5}{16}$ cm of wire for this job. How much wire will he have left after the job?

c. Janet wants to transfer 5 litres of oil from one container to another. She has a measuring jar that can only hold $\frac{1}{4}$ of a litre each time. How many times will she need to use the measuring jar?

d. I have a piece of cloth that is 21 yards in length. I want to divide the piece of cloth evenly into $\frac{1}{3}$ yards. How many pieces will I split the cloth into?

e. Sandra made $\frac{3}{4}$ of a liter of orange juice. She divided this into cups with $\frac{1}{8}$ of a liter per cup. How many cups of juice did she have at the end?

f. Victor comes from a very large family. He has 45 sea shells. He intends to give each of his cousins in their next family come together party $\frac{3}{5}$ of his sea shells so that they can decorate their rooms with it. How many cousins will he give the sea shells to in all?

g. Jane drank $\frac{1}{2}$ of a liter of water in the morning, $\frac{1}{2}$ of a liter of water in the afternoon and $\frac{3}{4}$ of a liter of water before bed time. How much water did she drink in all?

h. Janice has a stick that is 156 inches in length. If she cut the stick into $\frac{3}{4}$ inch piece each, how many pieces will she have?

i. Emma has a ribbon that is $\frac{2}{5}$ of a meter long. She cuts out $\frac{3}{12}$ meter from it to decorate a gift for her friend. How much ribbon is left?

j. Last night, Mrs. Hunter kept $\frac{3}{4}$ of the leftover cake in the fridge. The following day, her husband ate $\frac{1}{3}$ of it. What fraction of the cake did her husband eat?

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a. Mr. and Mrs. James are travelling for a christmas holiday. Mrs. James has $10\frac{1}{4}$ kg of baggage. Mr. James has $8\frac{1}{12}$ kg of baggage. How many kilograms of baggage do they have in all?

Kg of baggage Mrs. James has = $10\frac{1}{4}$.
Kg of baggage Mr. James has = $8\frac{1}{12}$.
So, to get the total kilograms of baggages we add.

$10\frac{1}{4}$ + $8\frac{1}{12}$

Let's first add the whole numbers and then the fractions.

$10\frac{1}{4}$ + $8\frac{1}{12}$

$(10 + 8)\dfrac{3 + 1}{12}$ = $18\frac{4}{12}$ $\longrightarrow$ $18\frac{1}{3}$

So, they have $18\frac{1}{3}$ kg of baggage in all.

b. So, he will have $1\frac{9}{16}$ centimeters of wire left.

c. So, she will need to use the measuring jar 20 times.

d. So, I will split the cloth into 7 pieces.

e. So, she ended up with 6 cups of orange juice.

f. So, he will give the sea shells to 65 of his cousins.

g. So, she drank $1\frac{3}{4}$ liter of water in all.

h. So, she will have 208 pieces of stick.

i. So, $\frac{3}{20}$ meter of the ribbon is left.

j. So, her husband ate $\frac{1}{4}$ of the pizza.