

SET ONE

1. Study Kirsten's incorrect work.



Name: Kirsten

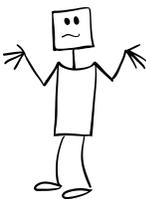
Solve. Write your answer in sentence form.

Dad gave $\frac{1}{10}$ of the pan of brownies to Jerry and $\frac{1}{10}$ of the pan of brownies to Denise.
How much of the pan did Dad give away?

$$\frac{1}{10} + \frac{1}{10} =$$

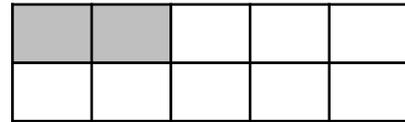
$$\frac{1+1}{10+10} = \frac{2}{20}$$

Dad gave $\frac{2}{20}$ of the pan away.



2. Answer these questions.

-  The shaded part of the diagram below represents the portion of the pan Dad gave away. How many pieces of the pan did Dad give away?



-  How many total pieces is the pan of brownies partitioned into?
-  Use your answers above to explain why the denominator in Kristen's answer should have been 10 not 20.

3. Then complete this one.

Solve. Write your answer in sentence form.

Mom gave $\frac{1}{8}$ of a pizza to Ben and $\frac{1}{8}$ of a pizza to Margaret. How much of the pizza did Mom give away?

Fraction Addition Word Problems, continued

SET TWO

1. Study Frank's correct work.



Name: Frank

Solve. Write your answer in sentence form.

The tennis player decided to go running. She ran $\frac{5}{8}$ of a mile and then took a break. Then she ran $\frac{7}{8}$ of a mile. How far did she run altogether?

$$\frac{5}{8} + \frac{7}{8}$$

$$\frac{5}{8} + \frac{3}{8} + \frac{4}{8}$$

$$\frac{8}{8} + \frac{4}{8}$$

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

$$1\frac{4}{8}$$

$$\frac{7}{8}$$

$$\frac{3}{8} + \frac{4}{8}$$

The tennis player ran $1\frac{4}{8}$ miles.



2. Answer these questions.

- Frank decomposed $\frac{7}{8}$ into $\frac{3}{8}$ and $\frac{4}{8}$. Why was it helpful to use $\frac{3}{8}$?

- Frank could have decomposed $\frac{5}{8}$ instead. What would have been a helpful decomposition of $\frac{5}{8}$? Explain your reasoning.

3. Then complete this one.

Solve. Write your answer in sentence form.

The athlete hiked $\frac{6}{7}$ of a mile on Monday and $\frac{4}{7}$ of a mile on Tuesday. How many miles did he hike in total?