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

Dividing Fractions and Mixed Numbers Word Problems

a.

Hadley is a very tall man. He is 6 feet tall. If his sister is 5 feet tall. How many times shorter is his sister than him?

b.

TAn Olympic-size swimming pool is holding $1\frac{1}{2}$ megalitres of water which is just $\frac{4}{5}$ full right now.

How many megalitres of water can the swimming pool hold?

c.

Felix has $\frac{4}{5}$ of a pound of candy bar. He want share it equally amongst his three sisters.

What fraction of a pound of candy bar will each person get?

d.

Yesterday, Peter brought 73 boxes of vegetable oil to be distributed at a family reunion. He gave each person $\frac{1}{2}$ a box of vegetable oil.

How many people were at the family reunion?

e.

The children's playground is opened every day for 7 hours during the day. There are 5 cleaners and they clean the playground on shifts.

If each shift is $2\frac{1}{4}$ hours, how many shifts per day are we supposed to have?

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a. Hadley's height = 6 feet

His sister's height = 5 feet

Therefore, how much shorter his sister is = Hadley's height ÷ His sister's height

$$6 \div 5 = \frac{6}{1} \div \frac{5}{1} = \frac{6}{1} \times \frac{1}{5} = \frac{6}{5} = 1\frac{1}{5}$$

So, his sister is $1\frac{1}{5}$ times shorter than him.

b. The swimming pool can hold $1\frac{7}{8}$ megalitres of water.

c. Each person will get $\frac{4}{15}$ of a pound of candy.

d. There were 146 people at the reunion.

e. So, there are $3\frac{1}{9}$ shifts per day.