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

Multiplying Two Fractions Word Problems

a.

Nevaeh spent $\frac{3}{6}$ of an hour doing an art project. She also spent $\frac{2}{4}$ of this time drawing a portrait for the project.

What fraction of the time did she spend in drawing a portrait for the project?

b.

Andre has a collection of sport tickets. Of the 84 sport tickets, $\frac{2}{6}$ are soccer tickets, $\frac{6}{7}$ are basketball tickets and $\frac{1}{8}$ are volley ball tickets.

How many basketball tickets are there?

c.

Every morning before going to school, Adriel takes $\frac{6}{8}$ of an hour to brush his teeth and take his bath. If he takes $\frac{4}{9}$ of this hour to take his bath, what fraction of the time does he use to take his bath?

d.

Chance has a collection of sport tickets. Of the 88 sport tickets, $\frac{2}{8}$ are soccer tickets, $\frac{2}{8}$ are basketball tickets and $\frac{2}{9}$ are volley ball tickets.

How many volley ball tickets does he have?

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a. Fraction of an hour she spent doing her art project = $\dfrac{3}{6}$

Time she spent drawing a portrait for the project = $\dfrac{2}{4}$ of the $\dfrac{3}{6}$ of an hour she spent doing her art project

Therefore, fraction of the time she spent drawing a portrait for the project =

Fraction of an hour she spent doing her art project × Time she spent drawing a portrait for the project

$$\dfrac{3}{6} \times \dfrac{2}{4} = \dfrac{3\times2}{6\times4} = \dfrac{6}{24} = \dfrac{1\times6}{4\times6} = \dfrac{1}{4}$$

she took $\dfrac{1}{4}$ of this hour drawing a portrait for the project.

b. There are 28 basketball tickets.

c. He used $\dfrac{1}{3}$ of an hour to take his bath.

d. He has $19\dfrac{5}{9}$ volley ball tickets.