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

Multiplying Mixed Numbers Word Problems

a.

Yesterday, Piper went for groceries shopping. She bought $2\frac{1}{3}$ of a kilogram of grapes.

If she bought a quarter as many pears as grapes, what fraction of a kilogram of pears did she buy?

b.

On Monday little frog princess caught $2\frac{5}{7}$ baskets of flies. On Tuesday, she caught 1 as many baskets of flies as on Monday.

How many baskets of flies did she catch on Tuesday?

c.

Everleigh picked $3\frac{5}{6}$ kilograms of apples from her father's orchard. She gave her younger sister $\frac{4}{7}$ kilograms of this apples.

How many kilograms did she give her sister?

d.

Sophia bought $2\frac{4}{7}$ kilograms of strawberries from Johnson's farm. She gave her friend Anita $\frac{3}{6}$ kilograms of this strawberries.

How many kilograms of strawberries did she give to her friend?

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a. Fraction of a kilogram of grapes that she bought = $2\frac{1}{3}$

Quantity of pears that she bought than grapes = a quarter as many pears as grapes = $\frac{1}{4}$

Therefore, fraction of a kilogram of pears that she bought =

Fraction of a kilogram of grapes that she bought × Quantity of pears that she bought than grapes

$$2\frac{1}{3} \times \frac{1}{4} = \frac{2\times3+1}{3} \times \frac{1}{4} = \frac{7}{3} \times \frac{1}{4} = \frac{7}{12}$$

So, she bought $\frac{7}{12}$ of a kilogram of pears.

b. The frog princess caught $2\frac{5}{7}$ flies on Tuesday.

c. She gave her sister $2\frac{1}{2}$ kilograms from the $3\frac{5}{6}$ kilograms of apples she picked.

d. She gave her friend $1\frac{5}{14}$ kilograms of strawberries out of the $2\frac{5}{7}$ kilograms of strawberries that she bought.