

Name: Star Part

Date: Period A

12/6

Division of Fractions Word Problems

* A = answer

Example: Sharon has $3\frac{1}{3}$ pizzas left over and wants to share it with her 5 friends.

What fraction will each person get?

What is being shared/split/divided?

Pizza $3\frac{1}{3}$

How many groups/people/parts is it being split into?

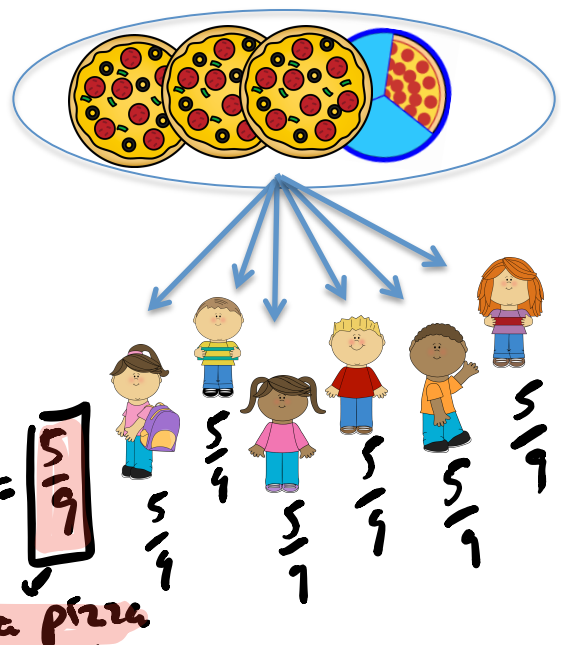
6 Sharon + 5 friends

Write and solve an equation to represent the situation.

$3\frac{1}{3} \div 6 = A$

$\frac{10}{3} \div \frac{6}{1} = \frac{10}{3} \cdot \frac{1}{6} = \frac{10}{18} \xrightarrow{\div 2} \frac{5}{9} \xrightarrow{\div 2} \frac{5}{18}$

Draw a diagram.



Try These:

1) Barry has $4\frac{3}{4}$ gallons of juice. He wants to fill bottles that hold $1\frac{1}{4}$ gallons of juice. How many bottles can he fill?

What is being shared/split/divided?

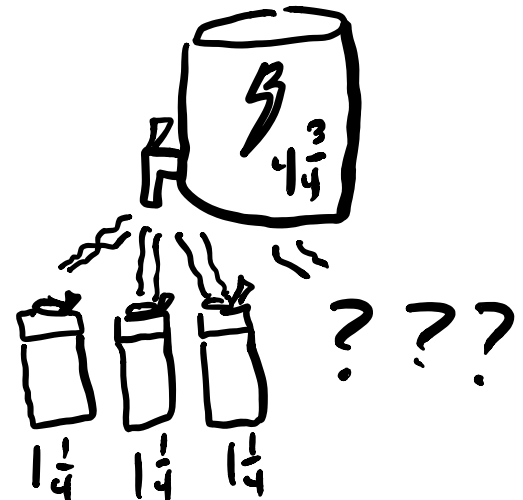
$4\frac{3}{4}$ gallons of JUICE



Draw a diagram.

How many groups/people/parts is it being split into?

It is being split into $1\frac{1}{4}$ parts.



Write and solve an equation to represent the situation.

$4\frac{3}{4} \div 1\frac{1}{4}$

$\frac{19}{4} \div \frac{5}{4} = \frac{19}{4} \cdot \frac{4}{5} = \frac{19}{5} = 3\frac{4}{5}$ bottles of juice

2) Matt has $5\frac{4}{5}$ kilograms of rice. Each serving is $\frac{1}{8}$ of a kilogram. How many servings does he have?

We can make $46\frac{2}{5}$ servings of rice

What is being shared/split/divided?

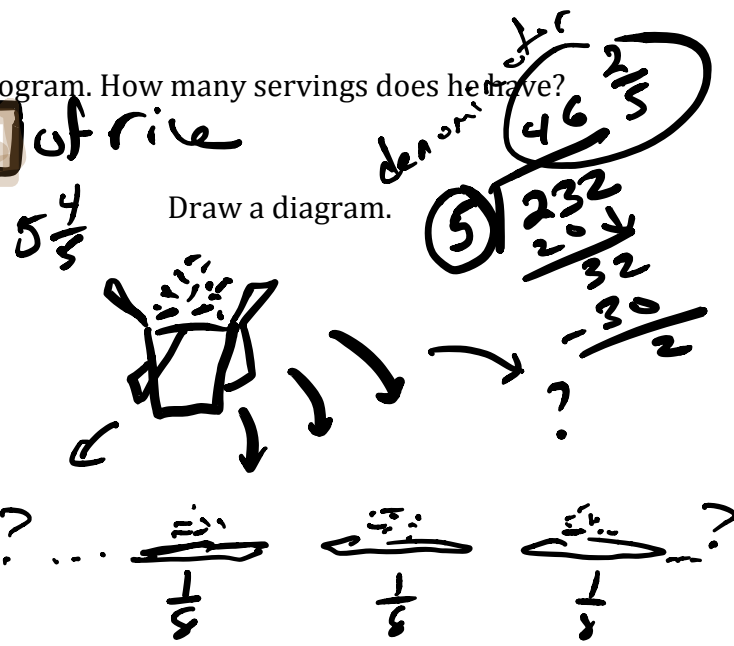
RICE $5\frac{4}{5}$ kg

How many groups/people/parts is it being split into?

Servings of $\frac{1}{8}$

Write and solve an equation to represent the situation.

$$5\frac{4}{5} \div \frac{1}{8} = \frac{29}{5} \cdot \frac{8}{1} = \frac{232}{5}$$



3) Patty has $7\frac{1}{2}$ yards of ribbon. Each dancer needs $\frac{3}{4}$ of a yard of ribbon for her hair. How many dancers can receive a ribbon?

What is being shared/split/divided?

Draw a diagram.

How many groups/people/parts is it being split into?

Write and solve an equation to represent the situation.

4) A turtle can walk $\frac{1}{12}$ of a mile in an hour. If he is $\frac{5}{6}$ of a mile away, how long will it take him to get to the pond?

What is being shared/split/divided?

Draw a diagram.

How many groups/people/parts is it being split into?

Write and solve an equation to represent the situation.

5) A swimming pool is open for $7\frac{1}{2}$ hours a day. The pool keeps one lifeguard on duty at a time, and each lifeguard's shift is $1\frac{1}{2}$ hours long.

What is being shared/split/divided?

Draw a diagram.

How many groups/people/parts is it being split into?

Write and solve an equation to represent the situation.

6) Vera is using her phone. Its battery life is down to $\frac{1}{2}$. It drains another $\frac{1}{8}$ every hour. How many hours will her battery last?

What is being shared/split/divided?

Draw a diagram.

How many groups/people/parts is it being split into?

Write and solve an equation to represent the situation.

7) Marcus is picking songs to play during a slideshow. The songs are each $3\frac{1}{2}$ minutes long. The slideshow is $31\frac{1}{2}$ minutes long. How many songs will play in the slideshow?

What is being shared/split/divided?

Draw a diagram.

How many groups/people/parts is it being split into?

Write and solve an equation to represent the situation.

8) Carlos has $\frac{1}{4}$ of a tank of fuel in his car. He uses $\frac{1}{10}$ of a tank per day. How many days will his fuel last?

What is being shared/split/divided?

Draw a diagram.

How many groups/people/parts is it being split into?

Write and solve an equation to represent the situation.

9) Erica can run $\frac{1}{6}$ of a mile in a minute. Her school is $\frac{2}{3}$ of a mile away from her home. At this speed, how long will it take her to get home?

What is being shared/split/divided?

Draw a diagram.

How many groups/people/parts is it being split into?

Write and solve an equation to represent the situation.

10) Nicole is playing a video game where each round lasts $\frac{3}{4}$ of an hour. She has scheduled $3\frac{3}{4}$ of an hour to play. How many rounds can she play?

What is being shared/split/divided?

Draw a diagram.

How many groups/people/parts is it being split into?

Write and solve an equation to represent the situation.