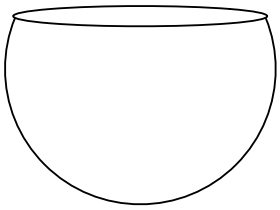
MathFLIX CHALLENGE

Practice with ratios will help you solve problems

The 7th grade class was in charge of making 6 gallons of punch for the 8th grade graduation party and had the following recipe for delicious Purple Berry Punch.

Use a diagram to create a picture of this problem.



PURPLE BERRY PUNCH

MIX EQUAL QUANTITIES OF BLUEBERRY JUICE AND RED BERRY PUNCH. (RED BERRY PUNCH IS MADE FROM ONE-THIRD STRAWBERRY JUICE AND TWO-THIRDS CRANBERRY JUICE.)

The 7th graders mixed equal quantities of blueberry juice and red berry punch. Divide your punch bowl in half and label each side. Red berry punch is made from one-third strawberry juice and two-thirds cranberry juice. Add this information to your diagram.

How many gallons of blueberry juice are needed? _____

How many gallons of strawberry juice are needed? _____

How many gallons of cranberry juice are needed? _____

Total gallons _____

Write a ratio to show blueberry juice to punch. _____

Write a ratio to show strawberry juice to punch. $\frac{1 \text{ juice}}{6 \text{ punch}}$

Write a ratio to show cranberry juice to punch. _____

Sum of ratios _____

Sarah has two dogs, Remy and Sully.

1. Remy eats ¾ can of dog food each day and Sully eats ½ can of dog food each day.

How many cans of dog food are needed each day? _____ Write as a ratio: $\frac{\text{cans}}{1 \text{ days}}$

2. Complete these ratios to help Sarah determine how many cand she needs over time.

$\frac{\text{cans}}{2 \text{ days}}$ $\frac{\text{cans}}{3 \text{ days}}$ $\frac{\text{cans}}{4 \text{ days}}$ $\frac{\text{cans}}{8 \text{ days}}$ $\frac{\text{cans}}{12 \text{ days}}$ $\frac{\text{cans}}{16 \text{ days}}$

3. Dog food costs $6.00 for 5 cans and is only sold in 5 can packs. How many days does 1 pack last? _____

If Sarah wanted to buy enough dog food for the following number of weeks, how many packs should she buy?

1 week _____ 2 weeks _____ 3 weeks _____ 4 weeks _____

How much would the four different weekly supplies of dog food cost for Remy and Sully?

1 week _____ 2 weeks _____ 3 weeks _____ 4 weeks _____

What is important about the multiples of 4 in this problem? _____