

Problem-Solving Application:

Use Operations

Problem You are thinking about getting all guppies, all neon tetras, or all goldfish for your aquarium. The total length of all the fish in the tank should not be greater than the number of gallons the tank holds. What is the greatest number of each kind of fish you could have in a 20-gallon tank? In a 55-gallon tank?

Freshwater Aquarium Fish	
Fish	Size (in inches)
Guppy	2
Neon tetra	1
Goldfish	4

UNDERSTAND

What is the question?

What do you know about the total length of all the fish?

How many inches long is each:

guppy? _____

neon tetra? _____

goldfish? _____

PLAN

How can you find the greatest number of each fish for each tank?

SOLVE

Find the number of each fish you can have in a 20-gallon tank.

Find the number of each fish you can have in a 55-gallon tank.

LOOK BACK

How can you check your answers?
