

## Alberto's Fish Tank

Alberto gets a fish-tank kit for his birthday. The kit comes with a 15-gallon tank, bags of colored gravel, and water-cleaning drops. Use this information to answer questions 1–4. Show your work. Write all answers in simplest form.

1. The chart below shows how much of each color of gravel Alberto puts in the bottom of his fish tank.

Color	Black	Gray	White	Yellow
Gravel (pounds)	$7\frac{1}{4}$	$5\frac{7}{8}$	$4\frac{1}{2}$	$3\frac{1}{8}$

- a. How many pounds of gravel does Alberto put in the tank?

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- b. Each color of gravel comes in an  $8\frac{1}{2}$ -pound bag. How many pounds of gravel should Alberto have left after putting in all of the colored gravel?

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Name \_\_\_\_\_

**Middle-of-Year  
Performance Task**

- 2.** Once the gravel is in place, Alberto puts 15 gallons of water in his fish tank.
- a.** During the first week,  $\frac{3}{40}$  of the water in the tank evaporates. How much water is left in the fish tank?

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- b.** Alberto adds enough water to bring the tank back up to 15 gallons of water. Then he adds water-cleaning drops to the 15 gallons of water in the tank. The directions say to use 1 drop for each  $\frac{1}{4}$  gallon of water. After putting in  $\frac{2}{3}$  of the total drops needed, Alberto has to stop and answer his phone. How many more drops does Alberto still need to add to the water? Explain how you found your answer.

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Name \_\_\_\_\_

**Middle-of-Year  
Performance Task**

- 3.** Alberto puts 3 kinds of fish in his fish tank: zebra danios, fancy guppies, and catfish. Half of Alberto's fish are zebra danios. He has 2 times as many catfish as he has fancy guppies.
- a.** Alberto's friend Jackson says that  $\frac{1}{3}$  of Alberto's fish are catfish. Is Jackson correct? Draw a diagram and explain your answer.

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- b.** One of Alberto's zebra danios is  $\frac{4}{3}$  the length of one of his fancy guppies. Which fish is longer? Explain how you know.

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Name \_\_\_\_\_

**Middle-of-Year  
Performance Task**

**4.** Alberto feeds his fish the same amount of food each day. A 2-ounce jar of fish-food flakes has enough food for Alberto to feed his fish for 100 days.

**a.** How many ounces of food will Alberto need for 110 days?  
Explain how you found your answer.

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**b.** Alberto is thinking of buying a jar of fish-food flakes that will last 110 days. If he does not change the number of fish, how many of these jars of fish-food flakes would Alberto need to buy in 1 year?

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