

## Test Ratios and Proportional Relationships

Write each of the following answers in 3 ways, be sure your answers are in simplest form (6RP.1)

- 1) Write the ratio of wings to beaks in the birdhouse if there were 5 birds.
- 2) In an aquarium there were 6 guppies and 15 goldfish. Write the ratio of guppies to goldfish in simplest form.
- 3) Using the information from question 2 write the ratio of goldfish to all fish, in simplest form.

Write the unit rate each of the following questions Be sure to show your work (6PR.2)

- 4) If a car travels 240 miles in 4 hours, how many miles per hour does the car travel?
- 5) If there are 2 cookies for 3 students each student receives how many cookies?
- 6) We paid \$75 for 15 hamburgers. How much was each burger?
- 7) A recipe has a ratio of 3 cups of flour for every 4 cups of sugar. What is the ratio of flour to each cup of sugar

Complete each ratio table (6RP.3a)

- 8) At **Books Unlimited**, 3 paperback books cost 18. Fill in the chart below to find the cost of 6 books, 12 books, how many books you could purchase for \$54 and \$ 6.

**Books Unlimited**

Books	Cost
3	18
1	

**Books Are Fun**

Books	Cost
	10
4	20
6	
8	40
1	

**Books Are Fun** offers paperback books at the prices above. Fill in the missing slots then answer the following question using the information from the tables. Which bookstore has the best prices? Justify your answer.

- 9) Plot **Books Unlimited** and **Books are Fun** on the graph paper provided. Remember to label your axes and write a key for each of the lines you plot.

Create a tape diagram to solve the following problems (6rp.3a)

- 10) The ratio of boys to girls in Mrs. Tinker's class is 3:4. If there are 12 boys how many children are in the class?
- 11) The ratio of cats to dogs at the vet was 2:3. If there are 25 animals at the vet, how many cats? Dogs?
- 12) School A has 500 students, which is  $2\frac{1}{2}$  times as many students at school B. How many more students attend school A than school B.

Create a double number line diagram to solve the following problems. (6RP.3b)

- 13) If it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were the lawns mowed?
- 14) In the trail mix the ratio of cups of peanuts to cups of chocolate candies is 3 to 2. How many cups of chocolate candies would be needed for 9 cups of peanuts? How much would be needed for 1 cup of peanuts?