

[2A] --PRACTICE-- Ratios, Rates, and Unit Rates

WRITE each ratio **ALL 3 WAYS** that ratios are written: as a **FRACTION**, using a **COLON**, **AND** using the word **"TO"**.

1. 4 sailboats to 6 motorboats 	2. 8 yellow eggs out of 12 colored eggs 	3. 3 tulips to 9 daffodils
4. 14 sheets of paper out of 35 	5. 15 baseballs to 25 softballs 	6. 12 hours out of 30 hours

WRITE the **RATE** [as a fraction] for each scenario – **REMEMBER the UNIT of MEASURE!**

7. A car that travels 263 miles on 14 gallons of gasoline. 	8. Greg ran 7.8 miles in 65 minutes. 	9. Adora bought 3 tickets to a concert for \$164.25. 	10. It takes Anita 7 hours to mow 11 lawns.
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WRITE the **UNIT RATE** [or **UNIT PRICE**] for each scenario. [round to **whole number** [except for money which is **2 decimal places**] – **REMEMBER the UNIT of MEASURE!**]

11. You buy 5 dozen eggs for \$7.99. How much does 1 dozen cost? 	12. Julian read 123 pages read in 3.5 hours. On average, how many pages per hour does Julian read? 	13. A car travels 317 miles on 15 gallons of gas. How many miles per gallon (MPG) does this car get? 	14. You buy 6 pounds of steak for \$36. How much does one pound cost?
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For each of the buying scenarios in the table below, **RATES** are given for **OPTION A** and for **OPTION B**. **CALCULATE** the **UNIT PRICE** [aka **UNIT RATE**] for **EACH OPTION** and **DETERMINE** the **BEST BUY**. [To be able to COMPARE CORRECTLY, round ALL MONEY AMOUNTS to **THREE [3] decimal places** – Remember the **UNIT of MEASURE!**]

OPTION A	UNIT PRICE for A	OPTION B	UNIT PRICE for B	BEST BUY? [A or B]
1 apple for \$0.193		3 apples for \$0.59		A B
20 pounds of pet food for \$16.99		50 pounds of pet food for \$42.99		A B
1-gallon can of paint for \$13.99		5-gallon can of paint for \$67.45		A B
84 ounces of detergent for \$10.64		48 ounces of detergent for \$6.19		A B
A car that travels 308 miles on 11 gallons of gas		A car that travels 406 miles on 14 gallons of gas		A B