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6 ${ }^{\text {th }}$ Grade Math: Unit 2 Rate, Ratio and Proportional Reasoning Review

| Questions | Answers (Show Your Work) |
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| 1.There were 15 boys and 18 girls in the class, <br> what is the ratio of girls to total students in <br> the class? (DOK1) (6RP1) | 1. |
| 2.500 students attend your school. 170 are 6th <br> graders, 125 are 7th graders, and the rest are <br> 8th graders. Who has the greater ratio <br> relationship? Explain your reasoning. (DOK3) <br> (6RP1) | 2. |
| 3.Create your own example of a relationship <br> between two quantities of 2 to 3. Explain the <br> ratio relationship. (DOK3) (6RP1) | 3. |

4. A ratio can be expressed three ways: Using the fraction bar as in - Using a colon symbol as in 2:3; Using the word "to" as in 2 to 3 . Write each ratio using the other two ways: (DOK2) (6RP1)

| Part A) The ratio of 3 inches to 20 feet. | 4 a. |
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| Part B) The ratio of 26 students: 1 class | 4 b. |
| Part C) The ratio of | 4 c. |

5. When the denominator of a rate is 1 , we call the rate a unit rate. We usually use the key word per or the division symbol / to indicate a unit rate. For example: If a student earns $\$ 7.65$ per hour, it is the same as $\$ 7.65 /$ hour, and means $\$ 7.65$ for every hour of work. Find the unit rate for the following: (DOK2) (6RP2)

| Part A) 120 eggs from 20 chickens | $5 \mathrm{a}$. |
| :--- | :--- |
| Part B) \$55 for 20 people | 5 b. |
| Part C) 250 miles in 4 hours | 5 c. |


| 6. Which is the better deal: 8 ounces of |
| :--- | :--- |
| shampoo for \$0.99 or 12 ounces for \$1.47? |
| (DOK1) (6RP2) | 6.


| 16. A boy knows that his height is 6 feet. At the time of day when his shadow is 4 feet, a tree's shadow is 24 feet. What is the height of the tree? (DOK2) (6RP3) | 16. *Hint* Proportions! |
| :---: | :---: |
| 17. A store advertisement reads "Going Out of Business Sale. Everything is - off." What percent is - ? (DOK2) (6RP3) | 17. |
| 18. Three-fourths of the members of student council are female. There are 36 females in student council. What is the total membership? | 18. |
| 19. The number of words Maria typed varied directly with the amount of time she spent typing. If she typed 275 words in 5 minutes, how long would it take her to type 1,100 words? | 19. |
| 20. Which of the following is a true statement? (DOK1) (6RP3) <br> a. - <br> b. - <br> C. - <br> d. - | 20. |
| 21. Mrs. Ackerman has 3 gallons of orange juice and Mrs. Cox drinks 2 pints of the juice, how much juice does Mrs. Ackerman have remaining? (DOK1) (6RP3) | 21. |
| 22. Mr. Bailey runs 10000 m in his race in 50 minutes. How long does it take him to run 1 km? (DOK3) | 22. |
| 23. The printer in the $6^{\text {th }}$ grade work room prints out 5000 copies before the toner needs to be changed. If Mrs. Bailey prints 923 pieces of paper, what percent of the ink is left? (DOK3) (6RP3) | 23. |



