Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7th Grade RED CHAPTER 5 Practice 1**

|  |  |
| --- | --- |
| **Write the ratio as a fraction in simplest form.** (1pt each)  1) 48 worksheets : 12 students | Answers  1) \_\_\_\_\_\_\_\_\_\_\_ |
| 2) 35 frogs to 21 lizards | 2) \_\_\_\_\_\_\_\_\_\_\_ |
| **Find the unit rate.**  3) 240 kilometers in 2.5 hours | 3) \_\_\_\_\_\_\_\_\_\_\_ |
| 4) $15 for 4 quarts | 4) \_\_\_\_\_\_\_\_\_\_\_ |
| **Tell whether the ratios form a proportion.** (1pt each)  5) | 5) \_\_\_\_\_\_\_\_\_\_\_ |
| 6) | 6) \_\_\_\_\_\_\_\_\_\_\_ |
| 7) The table shows the different rates to ship books through the mail. Are the rates proportional? Explain.   |  |  | | --- | --- | | **Pounds** | **Cost ($)** | | 4 | 6 | | 6 | 9 | | 8 | 12 |  |  | | --- | |  | |  | |  | | |
| **Use a graph to tell whether x and y are in a proportional relationship.**  8)   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **x** | 3 | 6 | 9 | 12 | | **y** | 1 | 2 | 3 | 4 | | 8) Graph then circle:  YES  NO |
| 9)   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **x** | 1 | 2 | 3 | 4 | | **y** | 5 | 10 | 15 | 20 | | 9) Graph then circle:  YES  NO |
| 10) **Use a table to write a proportion.**   |  |  |  | | --- | --- | --- | |  | **512 MB**  **MP3 Player** | **2 GB**  **MP3 Player** | | **Hours** | 17 | 68 | | **Songs** | x | 1000 | | 10) \_\_\_\_\_\_\_\_\_\_ |
| 11) **Use a table to write a proportion.**   |  |  |  | | --- | --- | --- | |  | **Tank A** | **Tank B** | | **Fish** | 6 | f | | **Gallons** | 10 | 55 | | 11) \_\_\_\_\_\_\_\_\_\_ |
| 12) You can buy 5 pounds of grapes for $9.95. Write a proportion that gives the cost c if you buy 4 pounds of grapes. | 12) \_\_\_\_\_\_\_\_\_\_ |
| **Solve the proportion.**  13) | 13) \_\_\_\_\_\_\_\_\_\_ |
| 14) | 14) \_\_\_\_\_\_\_\_\_\_ |
| 15) | 15) \_\_\_\_\_\_\_\_\_\_ |
| 16) | 16) \_\_\_\_\_\_\_\_\_\_ |
| **Graph the line that passes through the two points. Then find the slope of the line.**  17) (–4, –3) (4, 3) | 17) \_\_\_\_\_\_\_\_\_\_ |
| 18) (2, 1) (6, 3) | 18) \_\_\_\_\_\_\_\_\_\_ |
| **Tell whether x and y show direct variation.**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **x** | 0 | 2 | 4 | 6 | | **y** | 4 | 8 | 12 | 16 |   19) | 19) \_\_\_\_\_\_\_\_\_\_ |
| 20) 2y + x = 1 | 20) \_\_\_\_\_\_\_\_\_\_ |
| 21) | 21) \_\_\_\_\_\_\_\_\_\_ |
| 22) As part of a pancake recipe, you mix cup of milk for every 1 cup of flour to make 7 cups of batter. How much of each ingredient do you use? | 22) \_\_\_\_\_\_\_\_\_\_ |
| 23) There are 26 computers in the math lab. There are 6 activity booklets for every 2 computers. How many activity booklets are in the math lab? | 23) \_\_\_\_\_\_\_\_\_\_ |
| 24) The graph shows the distance you and your friend drive on a trip.  a) Find the slope of each line.  b) How faster are you traveling than your friend? | 24a)  you \_\_\_\_\_\_\_\_\_\_\_  your friend \_\_\_\_\_\_\_  24b) \_\_\_\_\_\_\_\_\_ |