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

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

**GREEN Chapter 7 Test (A)**

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| **Write an equation to match the word sentence.** (1pt each)  1) The sum of a number *a* and 3 is 9. | Answers  1) \_\_\_\_\_\_\_\_\_\_\_ | |
| 2) The product of a number *b* and 18 is 90 | 2) \_\_\_\_\_\_\_\_\_\_\_ | |
| 3) The quotient of a number *c* and 5 is 20 | 3) \_\_\_\_\_\_\_\_\_\_\_ | |
| 4) 25 is 4 less than a number *d* | 4) \_\_\_\_\_\_\_\_\_\_\_ | |
| **Solve the equation.** (2pts each)  5) e – 3.4 = 18.7 | 5) \_\_\_\_\_\_\_\_\_\_\_ | |
| 6) | 6) \_\_\_\_\_\_\_\_\_\_\_ | |
| **Solve the equation.** (2pts each)  7) 5g = 70 | 7) \_\_\_\_\_\_\_\_\_\_\_ | |
| 8) 40 = | 8) \_\_\_\_\_\_\_\_\_\_\_ | |
| **Tell whether the ordered pair is a solution of the equation.** (1pt each)  9) y = x + 11 (4, 13) | 9) \_\_\_\_\_\_\_\_\_\_\_ | |
| 10) y = 6x (8, 48) | 10) \_\_\_\_\_\_\_\_\_\_ | |
| Write and graph an equation in two variables that shows the relationship between time and distance.  11)  TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_04.png  TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_05.png | 11) \_\_\_\_\_\_\_\_\_\_ | |
| **Write the word sentence as an inequality.** (1pt each)  12) A number *j* is least 10. | 12) \_\_\_\_\_\_\_\_\_\_ | |
| 13) 15 is more than number k | 13) \_\_\_\_\_\_\_\_\_\_ | |
| **1**4) Twice a number m is less than 3. | 14) \_\_\_\_\_\_\_\_\_\_ | |
| 15) A number n is no more than 18. | 15) \_\_\_\_\_\_\_\_\_\_ | |
| **Graph the solutions of each inequality**. (1pt)  16) p ≥ 45  TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_06.png | 16) see left | |
| 17) q < –50  TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_06.png | 17) see left | |
| 18) r ≤ 75  TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_06.png | 18) see left | |
| 19) t > 96  TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_06.png | 19) see left | |
| **Solve the inequality, then graph.** (2pts)  20) u – 7 ≤ 2  TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_06.png | 20) \_\_\_\_\_\_\_\_\_\_ | |
| 21) < 1  TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_06.png | 21) \_\_\_\_\_\_\_\_\_\_ | |
| 22) A mobile phone plan has a base fee of $50 per month. The monthly cost increases by $10 for every gigabyte of data used. Write and graph an equation in two variables that represents the total monthly cost of the plan.  TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_05.png  Equation: | 22) see left | |
| 23) A disc will hold up to 62 minutes of music. The songs on the disc are 24 minutes long altogether. Write and solve an inequality to find how many more minutes of music you could add to the disc.  Inequality: | 23) see left | |
| 24) An acting class divides into 6 teams that each have at most 4 students.  a. Write and solve an inequality to represent the number of students in the class.  Inequality:  b. Each team has at least two students. Could there be 20 students in the class? Explain why or why not. |  | |
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