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

**RED Chapter 4 Practice 1**

|  |  |
| --- | --- |
| **Write an inequality for the graph.** 1)  | Answers1) \_\_\_\_\_\_\_\_\_\_\_ |
| 2)  | 2) \_\_\_\_\_\_\_\_\_\_\_ |
| **Write a word sentence as an inequality.**3) A number x is less than $\frac{1}{4}$. | 3) \_\_\_\_\_\_\_\_\_\_\_ |
| 4) A number m minus 3 is more than –4. | 4) \_\_\_\_\_\_\_\_\_\_\_ |
| 5) Sixteen times a number j is no less than –2. | 5) \_\_\_\_\_\_\_\_\_\_\_ |
| 6) Twice a number q minus 1 is less than 5. | 6) \_\_\_\_\_\_\_\_\_\_\_ |
| **Write a word sentence as an inequality.**7) To pass the test you must score at least 60 on the test. | 7) \_\_\_\_\_\_\_\_\_\_\_ |
| **Tell whether the given value is a solution of the inequality.**8) 5x – 17 > 62; x = 13 | 8) YES or NO |
| 9) $\frac{x}{2}-1< -1 ; x= -\frac{3}{4}$ | 9) YES or NO |
| 10) A video game gives you 100 seconds to complete the level and move to the next. You are halfway through the level after 55 seconds. Write and solve an inequality to find out how much time you have left to complete the level.SOLVED inequality:Write the inequality from the story problem: |
| 11) A video game gives you 100 seconds to complete the level and move to the next. You are halfway through the level after 55 seconds. You will receive a time bonus if you finish in 70 seconds or less. Write and solve an inequality to find out how much time you have left to earn a bonus.Write the inequality from the story problem:SOLVED inequality: |
| 12) An isosceles triangle has a base of 5 centimeters and sides x centimeters long. The perimeter is no more than 30 centimeters. Write and solve an inequality to find the possible values of x. Write the inequality from the story problem:SOLVED inequality: |
| **Solve the inequality.** 13) b + 8 > 7 | 13) \_\_\_\_\_\_\_\_\_\_ |
| 14) $-3 \geq x-4.5$ | 14) \_\_\_\_\_\_\_\_\_\_ |
| 15) $-\frac{7}{8}c \leq 35$ | 15) \_\_\_\_\_\_\_\_\_\_ |
| 16) $\frac{p}{-3} > -5$ | 16) \_\_\_\_\_\_\_\_\_\_ |
| **Solve the inequality.** 17) $6< 2g-4$ | 17) \_\_\_\_\_\_\_\_\_\_ |
| 18) $-\frac{1}{4}\left(w -5\right)\geq -2$ | 18) \_\_\_\_\_\_\_\_\_\_ |
| **Graph the solutions of each inequality**. (1pt)19) $w-8\geq -4$TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_06.png |
| 20) $\frac{1}{4}(3x-2)< -5$TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_06.png |
| 21) $\frac{z-1}{2}\geq \frac{1}{3}$TA: C:\replacearts\Green Assessment Book\Green Chapter 7 AB\Arts\PNGs\mscc6_ab_0700_06.png |
| **Write and solve an inequality that represents the value of x. SIMPLIFY.**22) The PERIMETER is at least 12 inches. SIMPLIFIED inequality: |
| 23) The AREA is no more than 27 square inches.  SIMPLIFIED inequality: |
| 24) A music teacher budgets $150 for new books. The minimum cost of a new book is $12. How many books can she buy? SOLVED inequality:Write the inequality from the story problem: |