

Inequalities - Review

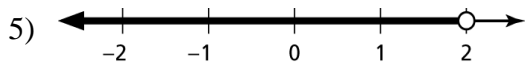
Write the word sentence as an inequality.

- 1) A number b times 3.5 is no less than 21. 2) The product of 6 and number c is less than 12.

Tell whether the given value is a solution of the inequality.

- 3) $\frac{1}{2} > 3p; p = \frac{1}{6}$ 4) $2.16 \geq 3z - 0.5; z = 0.6$

Write an inequality and a word sentence that represent the graph.

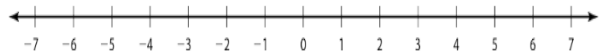


Graph the inequality on a number line.

7) $6.5 > a$



8) $u \leq -8$



- 9) A highway passes under a road. The clearance height is 7.75 feet. Write and graph an inequality that represents the height of a vehicle that can travel on the highway.

Solve the inequality.

10) $t + 54 \leq 85.6$

11) $q - 9.8 > 1.2$

12) $12.4 + 6.07 \leq v - 8.13$

Write the word sentence as an inequality. Then solve the inequality.

13) The total of $\frac{3}{4}$ and a number is no more than 2.

14) A number minus $\frac{7}{12}$ is at least $3\frac{1}{2}$.

- 15) You are cooking a turkey. The turkey must reach a temperature of at least 165 degrees to be fully cooked. The temperature is 135 degrees. Write and solve an inequality to represent the number of degrees the temperature must increase for the turkey to be done.

Solve the inequality. Graph the solution.

16) $\frac{3}{4}m \leq 6$



17) $42h \geq 105$



18) $\frac{r}{4} < 3.1$



19) $-7.2p > 64.8$



Write the word sentence as an inequality. Then solve the inequality.

20) 10 times a number q is at least 2.01.

The quotient of a number b and 3 is less than

21) $\frac{1}{12}$