

Name _____

Pre-Algebra

Chapter 3 Practice Test

Solve the equations. Show all the steps.

1. $m - 6 = -4$

6. $-3n + 11 = 47$

2. $-5 + x = 32$

7. $\frac{x}{2} - 7 = 18$

3. $3y = 63$

8. $15 = \frac{h+5}{4}$

4. $\frac{w}{4} = 12$

9. $36 = 5g - 8g$

5. $4b + 3 = 67$

10. $8x - 2x - 1 = 143$

Solve each word problem.

11. You earn \$120 per month. You spend \$48 at Spring Loaded. One-third of the money you have left goes into savings. How much do you save each month?

12. You go to Taco Cabana and buy fajitas and burritos. Your total is \$34. You bought six burritos for \$3 each and you bought four steak fajitas. How much does a steak fajita cost?

Translate each sentence into an equation. Solve the equation.

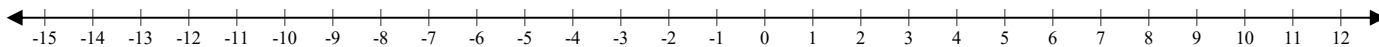
1. The difference between a number and 8 is 91.
2. The product of 16 and a number is 112.
3. Seven less than a number is 10.
4. The quotient of a number and 9 is 216.
5. Three more than twice a number is 85.

Answer Yes or No.

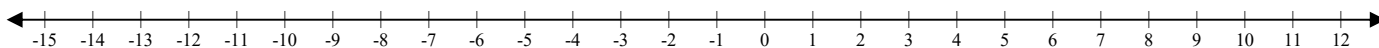
6. Is -4 a real number?
7. Is $\frac{1}{2}$ an integer?
8. Is 0 a whole number?
9. Is -7 a rational number?
10. Is $\frac{3}{4}$ an irrational number?
11. Is π a real number?
12. Is $\frac{9}{4}$ a whole number?
13. Is 0 an integer?
14. Is -8 a rational number?

Graph the inequalities.

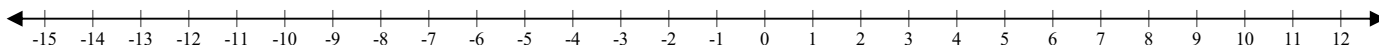
15. $x > -2$



16. $x \leq 4$



17. $x \neq 6$



Solve the inequalities.

18. $x - 5 \leq 11$

19. $8 < \frac{x}{-3}$

20. $2x - 6 > 30$