

Name _____

Pre-Algebra

Chapter 3 & 4 Practice Test

Solve the equations.

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

Translate each sentence into an equation. Solve the equation.

11. The difference between a number and 8 is 91.

12. The product of 16 and a number is 112.

13. Seven less than a number is 10.

14. The quotient of a number and 9 is 216.

15. Three more than twice a number is 85.

Solve each word problem.

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

17. 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?

Answer Yes or No.

18. Is -4 a real number?

19. Is $\frac{1}{2}$ an integer?

20. Is 0 a whole number?

21. Is -7 a rational number?

22. Is $\frac{3}{4}$ an irrational number?

23. Is π a real number?

24. Is $\frac{9}{4}$ a whole number?

25. Is 0 an integer?

26. Is -8 a rational number?

Solve the inequalities.

27. $x - 5 \leq 11$

28. $8 < \frac{x}{-3}$

29. $2x - 6 > 30$

30. Circle the prime numbers: 34 17 45 9 23 123 77

31. Find the prime factorization of these numbers:

a. 36

b. 175

c. 594

32. Find the GCF and LCM of these pairs of numbers:

b. 12 and 18

b. 40 and 64