PreAlgebra Chapter 1 Test

Name____________________ Hour____

directions:

1. a) List the next 3 numbers in the sequence: 7, 14, 21, 28, ___.

b) Describe the pattern.

2. a) List the next 3 numbers in the sequence: 99, 89, 80, 72, ___, ___, ___

b) Describe the pattern.

3. a) Make-up your own sequence using 7 numbers.

___, ___, ___ , ___ , ___ , ___ , ___

b) Describe your sequence.

Write a verbal description of the number phrase. Be sure to include one of these in your description: sum, difference, product, or quotient.

4. (9)(3)

5. 27 ÷ 3

Evaluate each expression:

6. (4.79)(12.3) =

7. 2496 ÷ 6 =

8. 4(7) + 45 ÷ 15 =

9. [(6 + 8) ÷ 2] + 63 ÷ 21 =

Evaluate the expression and round to 2 decimal places.

10. \sqrt{410} =

11. \sqrt{289} =
Write each expression as a power. Then evaluate.

12. \((5)(5)(5)(5) = \) \(= \)

13. \((1.3)(1.3)(1.3) = \) \(= \) (decimal answer)

14. \(\left(\frac{2}{7}\right)\left(\frac{2}{7}\right)\left(\frac{2}{7}\right) = \) \(= \) (fraction answer)

15. A square carpet has an area of 529 square inches. What are the lengths of the sides of the carpet? _____

[Work to be done]

Evaluate:

16. \(5(7) + 50 \div 10 = \)

17. \((3)(2) - 2^2 + 4(7) = \)

18. \(4 + 3(2) - (5 + 3) + 5^3 = \)

19. \(5(6 - 3) + 10 \div 5 = \)

Evaluate these expressions when \(x = 5\) and \(y = 2\).

20. \(7x - 3y = \)

21. \(9xy = \)

22. \(5x^2 = \)

23. \(y^3 + \sqrt{20x} = \)
Use the bar graph for the next 4 questions:

![Bar Graph](image)


25. Which team had the smallest difference between wins and losses?

26. Write your own question that can be answered by interpreting the graph.

27. Then write the solution.

Decide whether each figure is a polygon. If it is, give its name.

28. ![Circle](image)

   yes or no: ___, __________

29. ![Star](image)

   ___, __________

30. ![Triangle](image)

   ___, __________