Translating Algebraic Phrases (D)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. the product of a number c plus sixteen and the same number minus twenty-six

   _____

2. the difference of a number b and itself

   _____

3. the sum of a number r and its cube

   _____

4. the square of the quotient of a number t and seventy

   _____

5. the sum of a number z and ninety-one divided by thirty-six

   _____

6. the sum of a number p and sixty-three to the power of four

   _____

7. the product of a number k and sixty-nine is divided by sixty-four

   _____

8. four times the square of a number y divided by eighty-seven more than e

   _____

9. a number h divided by the square of eighty

   _____

10. a number j multiplied by itself sixty-five times

    _____

11. the product of a number s and itself

    _____

12. half of the square root of a number d

    _____

13. a number f squared plus twice the same number minus twenty

    _____

14. the sum of three tenths of a number q and sixty

    _____

15. the difference of the square root of a number m and eighty-five

    _____

16. the square root of the difference of a number g and fifty-six

    _____

17. the sum of a number v and itself

    _____

18. seven eighths of a number n is subtracted from twelve

    _____

19. the difference between the cube of a number w and thirty-four

    _____

20. fifteen times the cube of the difference of a number x and nine

    _____

Translating Algebraic Phrases (D) Answers

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. the product of a number c plus sixteen and the same number minus twenty-six

   $(c + 16)(c - 26)$

2. the difference of a number b and itself

   0

3. the sum of a number r and its cube

   $r + r^3$

4. the square of the quotient of a number t and seventy

   $\left(\frac{t}{70}\right)^2$

5. the sum of a number z and ninety-one divided by thirty-six

   $\frac{z+91}{36}$

6. the sum of a number p and sixty-three to the power of four

   $(p + 63)^4$

7. the product of a number k and sixty-nine is divided by sixty-four

   $\frac{69k}{64}$

8. four times the square of a number y divided by eighty-seven more than e

   $\frac{4y^2}{e+87}$

9. a number h divided by the square of eighty

   $\frac{h}{80^2}$

10. a number j multiplied by itself sixty-five times

    j^{65}

11. the product of a number s and itself

    s^2

12. half of the square root of a number d

    $\frac{\sqrt{d}}{2}$

13. a number f squared plus twice the same number minus twenty

    $f^2 + 2f - 20$

14. the sum of three tenths of a number q and sixty

    $\frac{3}{10}q + 60$

15. the difference of the square root of a number m and eighty-five

    $\sqrt{m} - 85$

16. the square root of the difference of a number g and fifty-six

    $\sqrt{g - 56}$

17. the sum of a number v and itself

    $2v$

18. seven eighths of a number n is subtracted from twelve

    $12 - \frac{7}{8}n$

19. the difference between the cube of a number w and thirty-four

    $w^3 - 34$

20. fifteen times the cube of the difference of a number x and nine

    $15(x - 9)^3$

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