Translating Algebraic Phrases (B)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. the square of the quotient of a number *z* and thirty-one

   _____

2. the sum of a number *d* and its cube

   _____

3. the difference of a number *n* and itself

   _____

4. the quotient of a number *y* and itself

   _____

5. the sum of a number *w* and twenty-four to the power of four

   _____

6. four times the square of a number *k* divided by forty-one more than *e*

   _____

7. the difference between the cube of a number *m* and forty-seven

   _____

8. a number *v* squared plus twice the same number minus seventy

   _____

9. the product of a number *q* and seventy-two is divided by seventy-six

   _____

10. the difference of the square root of a number *p* and eight

    _____

11. the square root of the difference of a number *c* and sixteen

    _____

12. the sum of a number *f* and itself

    _____

13. fifty-nine times the sum of a number *g* and thirty-one

    _____

14. half of the square root of a number *h*

    _____

15. the product of a number *t* and itself

    _____

16. three fifths of a number *x* is subtracted from sixty-five

    _____

17. the sum of two fifths of a number *s* and twenty-two

    _____

18. the inverse of a number *j*

    _____

19. seventy times the cube of the difference of a number *b* and thirty-nine

    _____

20. the product of a number *r* plus eighty-five and the same number minus forty-four

    _____

Translating Algebraic Phrases (B) Answers

Name: _____   Date: _____

Write an algebraic expression for each phrase.

1. the square of the quotient of a number z and thirty-one $\left(\frac{z}{31}\right)^2$

2. the sum of a number d and its cube $d + d^3$

3. the difference of a number n and itself 0

4. the quotient of a number y and itself 1

5. the sum of a number w and twenty-four to the power of four $(w + 24)^4$

6. four times the square of a number k divided by forty-one more than e $\frac{4k^2}{e+41}$

7. the difference between the cube of a number m and forty-seven $m^3 - 47$

8. a number v squared plus twice the same number minus seventy $v^2 + 2v - 70$

9. the product of a number q and seventy-two is divided by seventy-six $\frac{72q}{76}$

10. the difference of the square root of a number p and eight $\sqrt{p} - 8$

11. the square root of the difference of a number c and sixteen $\sqrt{c - 16}$

12. the sum of a number f and itself $2f$

13. fifty-nine times the sum of a number g and thirty-one $59(g + 31)$

14. half of the square root of a number h $\frac{\sqrt{h}}{2}$

15. the product of a number t and itself t^2

16. three fifths of a number x is subtracted from sixty-five $65 - \frac{3}{5}x$

17. the sum of two fifths of a number s and twenty-two $\frac{2}{5}s + 22$

18. the inverse of a number j $\frac{1}{j}$

19. seventy times the cube of the difference of a number b and thirty-nine $70(b - 39)^3$

20. the product of a number r plus eighty-five and the same number minus forty-four $(r + 85)(r - 44)$

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