Translating Algebraic Phrases (C)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. a number *x* multiplied by itself seventy-five times

    _____

2. the difference of the square root of a number *c* and seventy-five

    _____

3. forty-seven times the sum of a number *f* and forty-nine

    _____

4. the product of a number *w* and itself

    _____

5. the square root of the difference of a number *y* and thirteen

    _____

6. the difference between the cube of a number *m* and fifty-two

    _____

7. the sum of a number *j* and itself

    _____

8. four times the square of a number *g* divided by forty more than *e*

    _____

9. two times the cube of the difference of a number *z* and five

    _____

10. a number *d* divided by the square of fifty-two

    _____

11. the product of a number *t* and forty-two is divided by seventy-two

    _____

12. the sum of five sixths of a number *n* and sixty-four

    _____

13. three quarters of a number *b* is subtracted from twenty-two

    _____

14. the sum of a number *s* and forty-five to the power of four

    _____

15. the square root of the product of a number *v* and itself

    _____

16. a number *p* squared plus twice the same number minus eight

    _____

17. the product of a number *h* plus thirty-five and the same number minus eighty-six

    _____

18. the inverse of a number *r*

    _____

19. the quotient of a number *q* and itself

    _____

20. half of the square root of a number *k*

    _____

Translating Algebraic Phrases (C) Answers

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. a number x multiplied by itself seventy-five times

    x^{75}

2. the difference of the square root of a number c and seventy-five

    $\sqrt{c} - 75$

3. forty-seven times the sum of a number f and forty-nine

    $47(f + 49)$

4. the product of a number w and itself

    w^2

5. the square root of the difference of a number y and thirteen

    $\sqrt{y - 13}$

6. the difference between the cube of a number m and fifty-two

    $m^3 - 52$

7. the sum of a number j and itself

    $2j$

8. four times the square of a number g divided by forty more than e

    $\frac{4g^2}{e + 40}$

9. two times the cube of the difference of a number z and five

    $2(z - 5)^3$

10. a number d divided by the square of fifty-two

    $\frac{d}{52^2}$

11. the product of a number t and forty-two is divided by seventy-two

    $\frac{42t}{72}$

12. the sum of five sixths of a number n and sixty-four

    $\frac{5}{6}n + 64$

13. three quarters of a number b is subtracted from twenty-two

    $22 - \frac{3}{4}b$

14. the sum of a number s and forty-five to the power of four

    $(s + 45)^4$

15. the square root of the product of a number v and itself

    v

16. a number p squared plus twice the same number minus eight

    $p^2 + 2p - 8$

17. the product of a number h plus thirty-five and the same number minus eighty-six

    $(h + 35)(h - 86)$

18. the inverse of a number r

    $\frac{1}{r}$

19. the quotient of a number q and itself

    1

20. half of the square root of a number k

    $\frac{\sqrt{k}}{2}$