

Translating Algebraic Phrases (A)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. the product of a number n and six is divided by thirty-one

2. the product of a number b and itself

3. the square root of the product of a number z and itself

4. the sum of a number p and its cube

5. the square of the quotient of a number v and five

6. the sum of a number q and sixty-four divided by eighty-three

7. the difference of the square root of a number r and thirty-seven

8. the difference of a number m and itself

9. a number y squared plus twice the same number minus seventy-four

10. the square root of the difference of a number d and seventy-nine

11. the inverse of a number h

12. two times the cube of the difference of a number w and forty-two

13. the sum of a number f and itself

14. four times the square of a number t divided by fourteen more than e

15. the quotient of a number g and itself

16. fifteen times the sum of a number s and twenty-nine

17. the sum of one ninth of a number x and fifty-one

18. the sum of a number k and eighty-three to the power of four

19. a number j multiplied by itself thirty-four times

20. one half of a number c is subtracted from nineteen

Translating Algebraic Phrases (A) Answers

Name: _____

Date: _____

Write an algebraic expression for each phrase.

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|---|------------------------------|
| 1. the product of a number n and six is divided by thirty-one | $\frac{6n}{31}$ |
| 2. the product of a number b and itself | b^2 |
| 3. the square root of the product of a number z and itself | z |
| 4. the sum of a number p and its cube | $p + p^3$ |
| 5. the square of the quotient of a number v and five | $\left(\frac{v}{5}\right)^2$ |
| 6. the sum of a number q and sixty-four divided by eighty-three | $\frac{q+64}{83}$ |
| 7. the difference of the square root of a number r and thirty-seven | $\sqrt{r} - 37$ |
| 8. the difference of a number m and itself | 0 |
| 9. a number y squared plus twice the same number minus seventy-four | $y^2 + 2y - 74$ |
| 10. the square root of the difference of a number d and seventy-nine | $\sqrt{d - 79}$ |
| 11. the inverse of a number h | $\frac{1}{h}$ |
| 12. two times the cube of the difference of a number w and forty-two | $2(w - 42)^3$ |
| 13. the sum of a number f and itself | $2f$ |
| 14. four times the square of a number t divided by fourteen more than e | $\frac{4t^2}{e+14}$ |
| 15. the quotient of a number g and itself | 1 |
| 16. fifteen times the sum of a number s and twenty-nine | $15(s + 29)$ |
| 17. the sum of one ninth of a number x and fifty-one | $\frac{1}{9}x + 51$ |
| 18. the sum of a number k and eighty-three to the power of four | $(k + 83)^4$ |
| 19. a number j multiplied by itself thirty-four times | j^{34} |
| 20. one half of a number c is subtracted from nineteen | $19 - \frac{1}{2}c$ |