

Translating Algebraic Phrases (H)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. four times the square of a number r divided by seven more than e

2. twenty-four times the sum of a number j and ninety-five

3. the quotient of a number c and itself

4. the sum of a number v and seventy-three divided by eighty-nine

5. the sum of a number m and itself

6. the sum of five sixths of a number p and twenty

7. one ninth of a number w is subtracted from seven

8. the square of the quotient of a number t and seventy-one

9. the inverse of a number y

10. the square root of the difference of a number z and seventy-three

11. the difference between the cube of a number q and forty-three

12. the product of a number f and itself

13. the product of a number h and twelve is divided by sixty-six

14. the square root of the product of a number b and itself

15. the difference of the square root of a number n and sixty-five

16. a number g multiplied by itself eighty-six times

17. the difference of a number s and itself

18. forty-three times the cube of the difference of a number d and two

19. half of the square root of a number x

20. the sum of a number k and its cube

Translating Algebraic Phrases (H) Answers

Name: _____

Date: _____

Write an algebraic expression for each phrase.

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| 1. four times the square of a number r divided by seven more than e | $\frac{4r^2}{e+7}$ |
| 2. twenty-four times the sum of a number j and ninety-five | $24(j + 95)$ |
| 3. the quotient of a number c and itself | 1 |
| 4. the sum of a number v and seventy-three divided by eighty-nine | $\frac{v+73}{89}$ |
| 5. the sum of a number m and itself | $2m$ |
| 6. the sum of five sixths of a number p and twenty | $\frac{5}{6}p + 20$ |
| 7. one ninth of a number w is subtracted from seven | $7 - \frac{1}{9}w$ |
| 8. the square of the quotient of a number t and seventy-one | $\left(\frac{t}{71}\right)^2$ |
| 9. the inverse of a number y | $\frac{1}{y}$ |
| 10. the square root of the difference of a number z and seventy-three | $\sqrt{z - 73}$ |
| 11. the difference between the cube of a number q and forty-three | $q^3 - 43$ |
| 12. the product of a number f and itself | f^2 |
| 13. the product of a number h and twelve is divided by sixty-six | $\frac{12h}{66}$ |
| 14. the square root of the product of a number b and itself | b |
| 15. the difference of the square root of a number n and sixty-five | $\sqrt{n} - 65$ |
| 16. a number g multiplied by itself eighty-six times | g^{86} |
| 17. the difference of a number s and itself | 0 |
| 18. forty-three times the cube of the difference of a number d and two | $43(d - 2)^3$ |
| 19. half of the square root of a number x | $\frac{\sqrt{x}}{2}$ |
| 20. the sum of a number k and its cube | $k + k^3$ |