

Translating Algebraic Phrases (G)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

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

2. sixty-five times the cube of the difference of a number f and twelve

3. the product of a number r and twenty-one is divided by eight

4. the sum of a number g and ninety-seven to the power of four

5. four times the square of a number v divided by forty-four more than e

6. the square root of the difference of a number t and twenty-three

7. the product of a number s and itself

8. the sum of a number c and twenty-three divided by forty-one

9. the inverse of a number d

10. five sixths of a number h is subtracted from forty-four

11. the sum of a number j and its cube

12. the product of a number q plus six and the same number minus three

13. a number b multiplied by itself eighty-five times

14. the quotient of a number n and itself

15. the square of the quotient of a number p and thirty-three

16. a number w squared plus twice the same number minus six

17. the difference between the cube of a number m and fourteen

18. the difference of a number k and itself

19. the sum of four fifths of a number x and thirty-six

20. a number y divided by the square of sixty-two

Translating Algebraic Phrases (G) Answers

Name: _____

Date: _____

Write an algebraic expression for each phrase.

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| 1. the square root of the product of a number z and itself | z |
| 2. sixty-five times the cube of the difference of a number f and twelve | $65(f - 12)^3$ |
| 3. the product of a number r and twenty-one is divided by eight | $\frac{21r}{8}$ |
| 4. the sum of a number g and ninety-seven to the power of four | $(g + 97)^4$ |
| 5. four times the square of a number v divided by forty-four more than e | $\frac{4v^2}{e + 44}$ |
| 6. the square root of the difference of a number t and twenty-three | $\sqrt{t - 23}$ |
| 7. the product of a number s and itself | s^2 |
| 8. the sum of a number c and twenty-three divided by forty-one | $\frac{c + 23}{41}$ |
| 9. the inverse of a number d | $\frac{1}{d}$ |
| 10. five sixths of a number h is subtracted from forty-four | $44 - \frac{5}{6}h$ |
| 11. the sum of a number j and its cube | $j + j^3$ |
| 12. the product of a number q plus six and the same number minus three | $(q + 6)(q - 3)$ |
| 13. a number b multiplied by itself eighty-five times | b^{85} |
| 14. the quotient of a number n and itself | 1 |
| 15. the square of the quotient of a number p and thirty-three | $\left(\frac{p}{33}\right)^2$ |
| 16. a number w squared plus twice the same number minus six | $w^2 + 2w - 6$ |
| 17. the difference between the cube of a number m and fourteen | $m^3 - 14$ |
| 18. the difference of a number k and itself | 0 |
| 19. the sum of four fifths of a number x and thirty-six | $\frac{4}{5}x + 36$ |
| 20. a number y divided by the square of sixty-two | $\frac{y}{62^2}$ |