

# Translating Algebraic Phrases (J)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Write an algebraic expression for each phrase.

1. the inverse of a number  $s$  \_\_\_\_\_
2. the square root of the product of a number  $v$  and itself \_\_\_\_\_
3. the quotient of a number  $p$  and itself \_\_\_\_\_
4. a number  $n$  divided by the square of eighty-three \_\_\_\_\_
5. the product of a number  $x$  and itself \_\_\_\_\_
6. a number  $f$  squared plus twice the same number minus eighty-seven \_\_\_\_\_
7. the difference of a number  $c$  and itself \_\_\_\_\_
8. the product of a number  $h$  and sixty-nine is divided by fifty-five \_\_\_\_\_
9. four times the square of a number  $k$  divided by fifty-two more than  $e$  \_\_\_\_\_
10. the square of the quotient of a number  $w$  and eighty-three \_\_\_\_\_
11. the sum of a number  $d$  and fifty to the power of four \_\_\_\_\_
12. the sum of a number  $m$  and its cube \_\_\_\_\_
13. the sum of a number  $q$  and itself \_\_\_\_\_
14. the sum of a number  $y$  and ninety divided by twenty-two \_\_\_\_\_
15. the square root of the difference of a number  $b$  and six \_\_\_\_\_
16. half of the square root of a number  $t$  \_\_\_\_\_
17. the difference between the cube of a number  $g$  and fifty-five \_\_\_\_\_
18. a number  $r$  multiplied by itself forty-one times \_\_\_\_\_
19. the sum of one tenth of a number  $z$  and ninety-five \_\_\_\_\_
20. forty-two times the cube of the difference of a number  $j$  and eighteen \_\_\_\_\_

# Translating Algebraic Phrases (J) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Write an algebraic expression for each phrase.

- |   |                               |
|---|-------------------------------|
| 1. the inverse of a number $s$  | $\frac{1}{s}$                 |
| 2. the square root of the product of a number $v$ and itself                | $v$                           |
| 3. the quotient of a number $p$ and itself                                  | $1$                           |
| 4. a number $n$ divided by the square of eighty-three                       | $\frac{n}{83^2}$              |
| 5. the product of a number $x$ and itself                                   | $x^2$                         |
| 6. a number $f$ squared plus twice the same number minus eighty-seven       | $f^2 + 2f - 87$               |
| 7. the difference of a number $c$ and itself                                | $0$                           |
| 8. the product of a number $h$ and sixty-nine is divided by fifty-five      | $\frac{69h}{55}$              |
| 9. four times the square of a number $k$ divided by fifty-two more than $e$ | $\frac{4k^2}{e+52}$           |
| 10. the square of the quotient of a number $w$ and eighty-three             | $\left(\frac{w}{83}\right)^2$ |
| 11. the sum of a number $d$ and fifty to the power of four                  | $(d + 50)^4$                  |
| 12. the sum of a number $m$ and its cube                                    | $m + m^3$                     |
| 13. the sum of a number $q$ and itself                                      | $2q$                          |
| 14. the sum of a number $y$ and ninety divided by twenty-two                | $\frac{y+90}{22}$             |
| 15. the square root of the difference of a number $b$ and six               | $\sqrt{b - 6}$                |
| 16. half of the square root of a number $t$                                 | $\frac{\sqrt{t}}{2}$          |
| 17. the difference between the cube of a number $g$ and fifty-five          | $g^3 - 55$                    |
| 18. a number $r$ multiplied by itself forty-one times                       | $r^{41}$                      |
| 19. the sum of one tenth of a number $z$ and ninety-five                    | $\frac{1}{10}z + 95$          |
| 20. forty-two times the cube of the difference of a number $j$ and eighteen | $42(j - 18)^3$                |