

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.

- | | |
|---|------------------------------|
| 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 | $19 - \frac{1}{2}c$ |

Translating Algebraic Phrases (B)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. the square of the quotient of a number z and thirty-one

2. the sum of a number d and its cube

3. the difference of a number n and itself

4. the quotient of a number y and itself

5. the sum of a number w and twenty-four to the power of four

6. four times the square of a number k divided by forty-one more than e

7. the difference between the cube of a number m and forty-seven

8. a number v squared plus twice the same number minus seventy

9. the product of a number q and seventy-two is divided by seventy-six

10. the difference of the square root of a number p and eight

11. the square root of the difference of a number c and sixteen

12. the sum of a number f and itself

13. fifty-nine times the sum of a number g and thirty-one

14. half of the square root of a number h

15. the product of a number t and itself

16. three fifths of a number x is subtracted from sixty-five

17. the sum of two fifths of a number s and twenty-two

18. the inverse of a number j

19. seventy times the cube of the difference of a number b and thirty-nine

20. the product of a number r plus eighty-five and the same number minus forty-four

Translating Algebraic Phrases (B) Answers

Name: _____

Date: _____

Write an algebraic expression for each phrase.

- | | |
|---|-------------------------------|
| 1. the square of the quotient of a number z and thirty-one | $\left(\frac{z}{31}\right)^2$ |
| 2. the sum of a number d and its cube | $d + d^3$ |
| 3. the difference of a number n and itself | 0 |
| 4. the quotient of a number y and itself | 1 |
| 5. the sum of a number w and twenty-four to the power of four | $(w + 24)^4$ |
| 6. four times the square of a number k divided by forty-one more than e | $\frac{4k^2}{e+41}$ |
| 7. the difference between the cube of a number m and forty-seven | $m^3 - 47$ |
| 8. a number v squared plus twice the same number minus seventy | $v^2 + 2v - 70$ |
| 9. the product of a number q and seventy-two is divided by seventy-six | $\frac{72q}{76}$ |
| 10. the difference of the square root of a number p and eight | $\sqrt{p} - 8$ |
| 11. the square root of the difference of a number c and sixteen | $\sqrt{c - 16}$ |
| 12. the sum of a number f and itself | $2f$ |
| 13. fifty-nine times the sum of a number g and thirty-one | $59(g + 31)$ |
| 14. half of the square root of a number h | $\frac{\sqrt{h}}{2}$ |
| 15. the product of a number t and itself | t^2 |
| 16. three fifths of a number x is subtracted from sixty-five | $65 - \frac{3}{5}x$ |
| 17. the sum of two fifths of a number s and twenty-two | $\frac{2}{5}s + 22$ |
| 18. the inverse of a number j | $\frac{1}{j}$ |
| 19. seventy times the cube of the difference of a number b and thirty-nine | $70(b - 39)^3$ |
| 20. the product of a number r plus eighty-five and the same number minus forty-four | $(r + 85)(r - 44)$ |

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

Translating Algebraic Phrases (D)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. the product of a number c plus sixteen and the same number minus twenty-six

2. the difference of a number b and itself

3. the sum of a number r and its cube

4. the square of the quotient of a number t and seventy

5. the sum of a number z and ninety-one divided by thirty-six

6. the sum of a number p and sixty-three to the power of four

7. the product of a number k and sixty-nine is divided by sixty-four

8. four times the square of a number y divided by eighty-seven more than e

9. a number h divided by the square of eighty

10. a number j multiplied by itself sixty-five times

11. the product of a number s and itself

12. half of the square root of a number d

13. a number f squared plus twice the same number minus twenty

14. the sum of three tenths of a number q and sixty

15. the difference of the square root of a number m and eighty-five

16. the square root of the difference of a number g and fifty-six

17. the sum of a number v and itself

18. seven eighths of a number n is subtracted from twelve

19. the difference between the cube of a number w and thirty-four

20. fifteen times the cube of the difference of a number x and nine

Translating Algebraic Phrases (D) Answers

Name: _____

Date: _____

Write an algebraic expression for each phrase.

- the product of a number c plus sixteen and the same number minus twenty-six
 $(c + 16)(c - 26)$
- the difference of a number b and itself
 0
- the sum of a number r and its cube
 $r + r^3$
- the square of the quotient of a number t and seventy
 $\left(\frac{t}{70}\right)^2$
- the sum of a number z and ninety-one divided by thirty-six
 $\frac{z+91}{36}$
- the sum of a number p and sixty-three to the power of four
 $(p + 63)^4$
- the product of a number k and sixty-nine is divided by sixty-four
 $\frac{69k}{64}$
- four times the square of a number y divided by eighty-seven more than e
 $\frac{4y^2}{e+87}$
- a number h divided by the square of eighty
 $\frac{h}{80^2}$
- a number j multiplied by itself sixty-five times
 j^{65}
- the product of a number s and itself
 s^2
- half of the square root of a number d
 $\frac{\sqrt{d}}{2}$
- a number f squared plus twice the same number minus twenty
 $f^2 + 2f - 20$
- the sum of three tenths of a number q and sixty
 $\frac{3}{10}q + 60$
- the difference of the square root of a number m and eighty-five
 $\sqrt{m} - 85$
- the square root of the difference of a number g and fifty-six
 $\sqrt{g - 56}$
- the sum of a number v and itself
 $2v$
- seven eighths of a number n is subtracted from twelve
 $12 - \frac{7}{8}n$
- the difference between the cube of a number w and thirty-four
 $w^3 - 34$
- fifteen times the cube of the difference of a number x and nine
 $15(x - 9)^3$

Translating Algebraic Phrases (E)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

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

Translating Algebraic Phrases (E) Answers

Name: _____

Date: _____

Write an algebraic expression for each phrase.

- four times the square of a number p divided by fifty-eight more than e
$$\frac{4p^2}{e+58}$$
- the sum of one seventh of a number m and thirty-one
$$\frac{1}{7}m + 31$$
- seventy-eight times the sum of a number t and fourteen
$$78(t + 14)$$
- the sum of a number x and itself
$$2x$$
- the difference of the square root of a number g and eleven
$$\sqrt{g} - 11$$
- a number b squared plus twice the same number minus eighteen
$$b^2 + 2b - 18$$
- the sum of a number n and its cube
$$n + n^3$$
- fifty times the cube of the difference of a number w and forty-four
$$50(w - 44)^3$$
- the product of a number h plus eighty-three and the same number minus fifty-one
$$(h + 83)(h - 51)$$
- the inverse of a number y
$$\frac{1}{y}$$
- the difference of a number s and itself
$$0$$
- the sum of a number r and forty-one divided by seventy-three
$$\frac{r+41}{73}$$
- a number c divided by the square of thirty-five
$$\frac{c}{35^2}$$
- the difference between the cube of a number z and ninety-three
$$z^3 - 93$$
- the quotient of a number k and itself
$$1$$
- the square of the quotient of a number v and eighty-seven
$$\left(\frac{v}{87}\right)^2$$
- the product of a number q and seventy-one is divided by eighty-one
$$\frac{71q}{81}$$
- the square root of the difference of a number d and ninety-five
$$\sqrt{d - 95}$$
- a number j multiplied by itself three times
$$j^3$$
- half of the square root of a number f
$$\frac{\sqrt{f}}{2}$$

Translating Algebraic Phrases (F)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. three fifths of a number r is subtracted from fifty-three

2. thirty-four times the cube of the difference of a number t and eighty-two

3. the sum of a number d and ninety-four divided by sixteen

4. the sum of a number q and its cube

5. the product of a number f and itself

6. a number y squared plus twice the same number minus seventy-two

7. the sum of a number g and itself

8. a number c divided by the square of ninety-eight

9. the square root of the difference of a number h and ninety-four

10. the quotient of a number b and itself

11. the square root of the product of a number j and itself

12. four times the square of a number k divided by twenty-eight more than e

13. the sum of a number v and fifty-five to the power of four

14. a number w multiplied by itself six times

15. half of the square root of a number m

16. eighty-nine times the sum of a number s and sixty-seven

17. the sum of one sixth of a number n and five

18. the product of a number z plus forty and the same number minus seventy-three

19. the square of the quotient of a number p and six

20. the product of a number x and sixty is divided by fifty-eight

Translating Algebraic Phrases (F) Answers

Name: _____

Date: _____

Write an algebraic expression for each phrase.

- | | |
|--|------------------------------|
| 1. three fifths of a number r is subtracted from fifty-three | $53 - \frac{3}{5}r$ |
| 2. thirty-four times the cube of the difference of a number t and eighty-two | $34(t - 82)^3$ |
| 3. the sum of a number d and ninety-four divided by sixteen | $\frac{d+94}{16}$ |
| 4. the sum of a number q and its cube | $q + q^3$ |
| 5. the product of a number f and itself | f^2 |
| 6. a number y squared plus twice the same number minus seventy-two | $y^2 + 2y - 72$ |
| 7. the sum of a number g and itself | $2g$ |
| 8. a number c divided by the square of ninety-eight | $\frac{c}{98^2}$ |
| 9. the square root of the difference of a number h and ninety-four | $\sqrt{h - 94}$ |
| 10. the quotient of a number b and itself | 1 |
| 11. the square root of the product of a number j and itself | j |
| 12. four times the square of a number k divided by twenty-eight more than e | $\frac{4k^2}{e+28}$ |
| 13. the sum of a number v and fifty-five to the power of four | $(v + 55)^4$ |
| 14. a number w multiplied by itself six times | w^6 |
| 15. half of the square root of a number m | $\frac{\sqrt{m}}{2}$ |
| 16. eighty-nine times the sum of a number s and sixty-seven | $89(s + 67)$ |
| 17. the sum of one sixth of a number n and five | $\frac{1}{6}n + 5$ |
| 18. the product of a number z plus forty and the same number minus seventy-three | $(z + 40)(z - 73)$ |
| 19. the square of the quotient of a number p and six | $\left(\frac{p}{6}\right)^2$ |
| 20. the product of a number x and sixty is divided by fifty-eight | $\frac{60x}{58}$ |

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.

- | | |
|--|-------------------------------|
| 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 | $\frac{y}{62^2}$ |

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.

- | | |
|--|-------------------------------|
| 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 | $k + k^3$ |

Translating Algebraic Phrases (I)

Name: _____

Date: _____

Write an algebraic expression for each phrase.

1. two thirds of a number t is subtracted from eighty-three

2. the sum of a number n and itself

3. the product of a number c plus seventy-eight and the same number minus forty-two

4. the sum of a number d and its cube

5. the product of a number x and itself

6. a number z divided by the square of twenty-one

7. the sum of a number y and sixteen to the power of four

8. the quotient of a number p and itself

9. the sum of a number h and twenty-three divided by thirty-nine

10. half of the square root of a number g

11. sixty-five times the sum of a number f and eighty-five

12. six times the cube of the difference of a number k and ninety-eight

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

14. the square root of the difference of a number r and forty-one

15. four times the square of a number s divided by twenty-eight more than e

16. a number j squared plus twice the same number minus fifty-seven

17. the product of a number q and fifty-three is divided by fifty-three

18. a number w multiplied by itself ninety-one times

19. the difference of the square root of a number m and eighty-nine

20. the inverse of a number b

Translating Algebraic Phrases (I) Answers

Name: _____

Date: _____

Write an algebraic expression for each phrase.

- | | |
|---|----------------------|
| 1. two thirds of a number t is subtracted from eighty-three | $83 - \frac{2}{3}t$ |
| 2. the sum of a number n and itself | $2n$ |
| 3. the product of a number c plus seventy-eight and the same number minus forty-two | $(c + 78)(c - 42)$ |
| 4. the sum of a number d and its cube | $d + d^3$ |
| 5. the product of a number x and itself | x^2 |
| 6. a number z divided by the square of twenty-one | $\frac{z}{21^2}$ |
| 7. the sum of a number y and sixteen to the power of four | $(y + 16)^4$ |
| 8. the quotient of a number p and itself | 1 |
| 9. the sum of a number h and twenty-three divided by thirty-nine | $\frac{h+23}{39}$ |
| 10. half of the square root of a number g | $\frac{\sqrt{g}}{2}$ |
| 11. sixty-five times the sum of a number f and eighty-five | $65(f + 85)$ |
| 12. six times the cube of the difference of a number k and ninety-eight | $6(k - 98)^3$ |
| 13. the square root of the product of a number v and itself | v |
| 14. the square root of the difference of a number r and forty-one | $\sqrt{r - 41}$ |
| 15. four times the square of a number s divided by twenty-eight more than e | $\frac{4s^2}{e+28}$ |
| 16. a number j squared plus twice the same number minus fifty-seven | $j^2 + 2j - 57$ |
| 17. the product of a number q and fifty-three is divided by fifty-three | $\frac{53q}{53}$ |
| 18. a number w multiplied by itself ninety-one times | w^{91} |
| 19. the difference of the square root of a number m and eighty-nine | $\sqrt{m} - 89$ |
| 20. the inverse of a number b | $\frac{1}{b}$ |

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 | $42(j - 18)^3$ |