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 — $\frac{1}{b}$