

# 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

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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  $f$   
$$\frac{\sqrt{f}}{2}$$