

Name: _____

Date: _____ Score: _____

Translating Algebraic Expressions

Write an algebraic expression for each phrase.

1) Fifty-seven subtracted from z

2) The total of sixty and a number r

3) The product of x and twenty-two

4) The difference between eight and a smaller number x

5) Twenty-eight more than a number j

6) A number y raised to the power of 8

7) The sum of the ratio of y to 5 and 4

8) One-fourth of sum of x and 4

9) Five times the difference between x and a smaller number 3

10) p reduced by the quotient of 2 divided by 5

11) Two-sixth of a number decreased by 7

12) One-fourth of z subtracted from 19

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Answers

- | | |
|---|--|
| 1) Fifty-seven subtracted from z | <u>$z - 57$</u> |
| 2) The total of sixty and a number r | <u>$60 + r$</u> |
| 3) The product of x and twenty-two | <u>$22x$</u> |
| 4) The difference between eight and a smaller number x | <u>$8 - x$</u> |
| 5) Twenty-eight more than a number j | <u>$j + 28$</u> |
| 6) A number y raised to the power of 8 | <u>y^8</u> |
| 7) The sum of the ratio of y to 5 and 4 | <u>$\frac{y}{5} + 4$</u> |
| 8) One-fourth of sum of x and 4 | <u>$\frac{1}{4}(x + 4)$</u> |
| 9) Five times the difference between x and a smaller number 3 | <u>$5(x - 3)$</u> |
| 10) p reduced by the quotient of 2 divided by 5 | <u>$p - \frac{2}{5}$</u> |
| 11) Two-sixth of a number decreased by 7 | <u>$\frac{2}{6}x - 7$</u> |
| 12) One-fourth of z subtracted from 19 | <u>$19 - \frac{1}{4}z$</u> |