

I. Definitions

II. Inverse Operations

III. Solving for Variables

IV. Evaluate Algebraic Expressions

Homeschool



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Pre-Algebra and Geometry I

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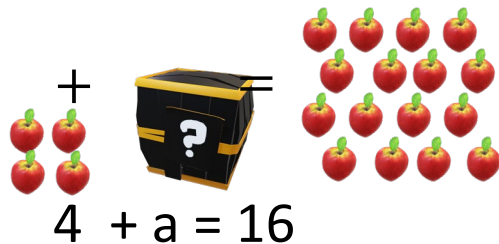
I. Definitions

variable:

algebra:

algebraic expression:

The employee at the grocery store knew there were sixteen apples available for sale. 4 apples were on the shelf and a box of apples were stored in the back. How many apples must be in the box?



II. Inverse Operations

16

- 4

4

+

16

+ 4

16

Addition and _____ are
inverse operations.

2

x

10

2

10

2 10

Multiplication and _____ are
inverse operations.

III. Solve for the Variable in Addition and Subtraction Equations.

Find Each Missing Number, Then Check

$$\begin{array}{r} 16 \\ + N \\ \hline 45 \end{array}$$

$$\begin{array}{r} N \\ + 12 \\ \hline 38 \end{array}$$

To solve for a missing
addend

3.

$$\begin{array}{r} b \\ + 3 \\ \hline 26 \end{array}$$

4.

$$\begin{array}{r} 16 \\ + n \\ \hline 16 \end{array}$$

5.

$$\begin{array}{r} 401 \\ + p \\ \hline 465 \end{array}$$

6.

$$\begin{array}{r} m \\ + 98 \\ \hline 120 \end{array}$$

$$\begin{array}{r} N \\ - 25 \\ \hline 54 \end{array}$$

To solve for a missing
minuend

$$\begin{array}{r} 78 \\ - N \\ \hline 61 \end{array}$$

To solve for a missing
subtrahend

$$\begin{array}{r} 7. \quad p \\ - 18 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 8. \quad 20 \\ - w \\ \hline 5 \end{array}$$

$$\begin{array}{r} 9. \quad 416 \\ - R \\ \hline 120 \end{array}$$

$$\begin{array}{r} 10. \quad 165 \\ - 7 \\ \hline d \end{array}$$

To solve for a missing **factor**

$$\begin{array}{r} 10 \\ \times N \\ \hline 40 \end{array}$$

$$\begin{array}{r} N \\ \times 11 \\ \hline 88 \end{array}$$

11. S

$$\begin{array}{r} \times 6 \\ \hline 36 \end{array}$$

12. 25

$$\begin{array}{r} \times h \\ \hline 75 \end{array}$$

IV. Evaluate algebraic expressions

Evaluate each algebraic expression when $a = 1$, $b=2$, and $c=3$

$$a + 5$$

$$a + b$$

$$13. c - b$$

$$14. (b)(c)$$

To evaluate **algebraic expressions**