Math Review

Volume 3

Times Tables,

Squares,

Square Roots

Math Review
By Carol Ann Goldstein

A sample of the content from:

Volume 3 - Times Tables, Squares, Square Roots

Menu

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Demo Volume Three

Questions

SQUARES
Square the number.
Write your answer as follows:
If the answer is 1, then write 1.

7.
7^2 =

SQUARE ROOTS
Find the Square Root of the number.
Write your answer as follows:
If the answer is 1, then write 1.

11.
$\sqrt{121}$ =

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Answers

SQUARES

7. 49

SQUARE ROOTS

.

11. 11

Explanations

Squares Question 7

When a number is written as a square, **number**^{2}, this means we will raise that **number** to the power of **2**.
When we raise a **number** to the power of **2**, we multiply this **number** by itself.
Therefore when we square a number we multiply the number by itself:
number x number.

7^2 =
Step 1: We can write this as:

$$\begin{array}{r} 7 \\ \times\ 7 \\ \hline 49 \end{array}$$

Conclusion: We started out with a number to square and now have a new number.
$7^2 = 49$

Square Roots Question 11

When a number is written as a square root, $\sqrt{\textbf{number}}$, this means we will find the **square root** of that **number**.
When we find the **square root** of a **number**, we must find the **only** number that when **squared** (**number**^{2}), will result in the **number** we started with.
Note: Remember when we square a number, we multiply the number by itself; finding the square root of this product, is the opposite of squaring a number.
Therefore when we find the square root of a number, we need to find the only number that can be divided into the original number evenly with no remainder, and that when multiplied by itself will result in the original number:
number x number = original number.

$\sqrt{121}$ =
Step 1: Since $11^2 = 121$, $\sqrt{121} = 11$
Step 2: As a proof of our answer we can say:
Since $121 \div 11 = 11$ **AND** $11 \times 11 = 121$, the square root of 121 is 11.
Conclusion: We started out with a number to find the square root of and now have a new number.
$\sqrt{121} = 11$