



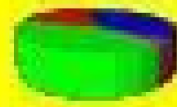
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Math Review

Volume 3

Times Tables,

Squares,

Square Roots

Math Review: By Carol Ann Goldstein
Demo Volume Three

Math Review
By Carol Ann Goldstein
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A sample of the content from:

Volume 3 - Times Tables, Squares, Square Roots

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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, $\sqrt{\text{number}}$, 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.

$$\sqrt{121} = 11$$