

Regla:

1. Separa los dígitos de dos en dos, del radicando
2. Busca un número que multiplicado por sí mismo se acerque a tu primer dígito.
3. Luego se restan.
4. Baja los otros dos dígitos y se separa con una coma la última cifra.
5. Se dobla la raíz y se divide entre las cifras separadas.
6. Se multiplica el cociente obtenido con el siguiente reglón y se resta.

Raíz cuadrada aproximada

Instrucciones:

Calcule la raíz cuadrada aproximadas con tres dígitos de las siguientes operaciones.

Diagram illustrating the steps for finding the square root of 537:

Initial setup: $\sqrt{5,37}$

Step 1: Find a number whose square is close to 5. $2 \times 2 = 4$.

Step 2: Subtract 4 from 5, leaving a remainder of 1. Bring down the next two digits (37) to form 137.

Step 3: Double the current root (2) to get 4. Find a number that, when multiplied by 43, is close to 137. $3 \times 43 = 129$.

Step 4: Subtract 129 from 137, leaving a remainder of 8. Bring down the next two digits (00) to form 800.

Step 5: The final result is 23, with a remainder of 8. The calculation is shown as $23 \times 23 = 529 + 8 = 537$.

Diagram showing the initial setup for finding the square root of 859:

$\sqrt{859}$

The diagram shows the first step of the process, with the first digit of the root (2) and the first remainder (4) already calculated.

Diagram showing the initial setup for finding the square root of 456:

$\sqrt{456}$

The diagram shows the first step of the process, with the first digit of the root (2) and the first remainder (4) already calculated.

Diagram showing the initial setup for finding the square root of 987:

$\sqrt{987}$

The diagram shows the first step of the process, with the first digit of the root (3) and the first remainder (9) already calculated.

Diagram showing the initial setup for finding the square root of 876:

$\sqrt{876}$

The diagram shows the first step of the process, with the first digit of the root (2) and the first remainder (4) already calculated.

Diagram showing the initial setup for finding the square root of 742:

$\sqrt{742}$

The diagram shows the first step of the process, with the first digit of the root (2) and the first remainder (4) already calculated.