# Division of Decimal by Whole Number

➡ Division of a decimal by a whole number is similar to whole number division.

**Rules for Decimal Division by a Whole Number**

- We use division or long division of decimals by whole numbers as if the decimals were whole numbers ignoring the decimal points.

- In the quotient that we get, we place the decimal point in the same spot as in the number that is being divided.

➡ **Let us understand with an example:**

**Example:** A string 32. 97 m long is divided into 7 equal parts. What is the length of each part?

**Solution:** To find the length of each part divide 32.97 by 7.

- Divide the whole number part of the decimal.

- Place the decimal point in the quotient directly above the decimal point in the dividend.

$$
\begin{array}{r}
4.7\,1 \\
7\overline{)\,3\,2.9\,7} \\
-2\,8\phantom{.97}\downarrow \\
\hline
4\,9\phantom{.} \\
-\,4\,9\phantom{.}\downarrow \\
\hline
0\,7 \\
-\phantom{0}\,7 \\
\hline
0
\end{array}
$$

**The length of each part of the string is 4.71m.**