



Mathematics for Plumbers and Pipefitters Tabs and Highlights

These 1 Exam Prep Tabs are based on the *Mathematics for Plumbers and Pipefitters, 8th Edition*.

Each Tabs sheet has five rows of tabs. Start with the first tab at the first row at the top of the page; proceed down that row placing the tabs at the locations listed below. Place each tab in your book setting it down one notch until you get to the last tab (usually the index or glossary). Then start with the highlights.

<u>1 Exam Prep Tab</u>	<u>Page #</u>
Tables and Charts	v
Basic Fundamentals	1
Pipe Length Calculations	35
Sheet Metal Work	163
Volumes, Pressures and Capacities	172
Pipe Sizing/ Units of Flow	193
Physics	195
Heating	213
Builders Level	233
Business of Plumbing	237
Data Charts	253

*****This concludes the tabs for this book. Please continue with the highlights on the following page.*****

Page#**Highlight**

172 **Water Measure:** A liter of water weighs 1 kilogram. One kilogram is about 2.2 pounds.

176 **Cylinders:** Volume of a cylinder formula is $V = \pi r^2 h$, or $V = 0.7854 d^2 h$

A shortcut to determine volumes of cylinders in gallons is $V = 0.0408 d^2 h$ if d is measured in inches and h is measured in feet

179 **Spheres:** Volume of a sphere formula is $V = 0.5236 d^3$

190 **Ratio of Pipe Capacities:**

R= number of smaller pipes

D= diameter of larger pipes

d= diameter of smaller pipes

$\sqrt{\left(\frac{D}{5}\right)^5}$ Formula allows for friction

193 Highlight: **Units of Flow for Each Pipe Size** chart