

# Dimensional Analysis

Write down the number of dimensions represented by each formulae and decide whether it could be used to measure length, area or volume.

1) Formulae	Dimensions	Length, Area, or Volume
$F = a$		
$F = ab$		
$F = abc$		
$F = a^2$		
$F = a^3$		

2) Formulae	Dimensions	Length, Area, or Volume
$F = a + b$		
$F = ab + bc$		
$F = abc - edf$		
$F = c^2 - cd$		
$F = c^2b - d^3$		

3) Formulae	Dimensions	Length, Area, or Volume
$F = 5ab$		
$F = 2bca$		
$F = \pi abc$		
$F = 4a - 6d$		
$F = 11b^3 - 5ed$		

4) Formulae	Dimensions	Length, Area, or Volume
$F = 5b - \pi d$		
$F = 5b^2 - \pi$		
$F = abc - c^2d$		
$F = 7s - 2t^3$		
$F = a + b + 5$		

5) Formulae (where k is a constant)	Dimensions	Length, Area, or Volume
$F = \frac{abc}{b}$		
$F = \frac{7kabc}{bc}$		
$F = \frac{7kabc}{a}$		
$F = \frac{a^2bc^2}{b^3}$		
$F = \frac{7ka^2bc^2}{b^3a^3}$		

6) Formulae (where k is a constant)	Dimensions	Length, Area, or Volume
$F = \sqrt{\frac{abc}{b}}$		
$F = \sqrt{\frac{kabc^2}{3}}$		
$F = \sqrt{\frac{a^2bc^3}{b^3}}$		
$F = \sqrt{\frac{6b^5c}{kb^2}}$		

# Dimensional Analysis Customary Units Worksheet

**S. Ananda Babu**



## **Dimensional Analysis Customary Units Worksheet:**

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