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 = a²	2 4	
F = a3		-

3) Formulae	Dimensions	Length, Area, or Volume
F = 5ab		.:
F = 2bca		
F=πabc	A	t:
F = 4a - 6d		
F = 11b3 - 5ed		

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

2) Formulae	Dimensions	Length, Area, or Volume
F = a + b		
F = ab + bc		
F = abc - edf		
F = c2 - cd		
F=c ¹ b-d ³		

4) Formulae	Dimensions	Length, Area, or Volume
F = 5b − πd		
F = 5b3 - x		
F = abc - c²d		
F = 7s - 2t3		
F=a+b+5		

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

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Mwambo, F.M.

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