Fill in the Blanks — Hooke's Law

A horizontal elastic string or spring is fixed at one end. Its initial length is its natural length l. A force is applied to extend or compress the string or spring.

Modulus of Elasticity	Natural Length	Extension or Compression		Final Length	Tension
30 N	1 m	Extension	0.2 m	1.2 m	6 N
20 N	2 m	Extension	0.5 m		
24 N	1.5 m	Compression	0.5 m		
50 N	0.8 m			1.04 m	
48 N	2.4 m			2 m	
	1.25 m	Extension	0.25 m		12 N
	0.9 m	Compression	0.18 m		5 N
	1.6 m			1.4 m	5 N
	2 m			2.1 m	0.8 N
		Extension	0.9 m	2.7 m	7 N
		Compression	1 m	2.5 m	14 N
60 N		Extension		2 m	40 N
30 N		Compression		2 m	6 N
y N	x m	Extension	x m		
	x m			$\frac{x}{2}$ m	y N