Ytterbian isotopes

educationinchemistry

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Foundation level activity

Read the article 'The most important village in chemistry' (rsc.li/2qcDGH3). It mentions a number of elements that are associated with the town of Ytterby. Use the information in the table to work out the elements the data describes and the chemical symbols. Complete all the gaps in the table.

Element	Number of protons	Number of neutrons	Symbol
	39	49	88 39
	68	94	162 68
	64	92	156 64
	66	96	162 66
	70	98	168 70
		24	⁴⁵ ₂₁ Sc
	69	100	169 69
	67	98	165 67
Dysprosium		90	¹⁵⁶ ₆₆ Dy
	71	104	¹⁷⁵ ₇₁ Lu
Gadolinium			$^{154}_{64}Gd$
Ytterbium		106	¹⁷⁶ ₇₀ Yb
Terbium	65		¹⁵⁹ ₆₅ Tb
Erbium			¹⁶⁷ ₆₈ Er