1 – 1. PATTERNS WITH EXPONENTS AND POWERS OF 10

Exercise 1. Drag the correct keyword to each box:

| exponent | power | base |

a) The product that results from multiplying the same number over and over is a [＿＿＿＿] of that number.

b) When a number is written using exponents, the [＿＿＿＿] is the number that is used as a factor.

c) The [＿＿＿＿] is the number that tells how many times a base number is used as a factor.

Exercise 2. Complete the mass of the planets by filling in the boxes:

Planets	Mass (in kilograms)	
Mercury	330 …..000 (22 zeros)	Example: 33×10^{22}
Venus	4870 …..000 (22 zeros)	[＿] $\times 10^{[\ ]}$
Earth	5970 ….000 (22 zeros)	[＿] $\times 10^{[\ ]}$
Mars	6420 …..000 (22 zeros)	[＿] $\times 10^{[\ ]}$
Uranus	8680 …..000 (23 zeros)	[＿] $\times 10^{[\ ]}$
Neptune	1020 …..000 (24 zeros after digit 2)	[＿] $\times 10^{[\ ]}$
Saturn	5680 …..000 (24 zeros)	[＿] $\times 10^{[\ ]}$
Jupiter	190 …..000 (27 zeros)	[＿] $\times 10^{[\ ]}$