

## 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: $33 \times 10^{22}$
Venus	4870 .....000 (22 zeros)	<input type="text"/> $\times 10^{\text{$
Earth	5970 .....000 (22 zeros)	<input type="text"/> $\times 10^{\text{$
Mars	6420 .....000 (22 zeros)	<input type="text"/> $\times 10^{\text{$
Uranus	8680 .....000 (23 zeros)	<input type="text"/> $\times 10^{\text{$
Neptune	1020 .....000 (24 zeros after digit 2)	<input type="text"/> $\times 10^{\text{$
Saturn	5680 .....000 (24 zeros)	<input type="text"/> $\times 10^{\text{$
Jupiter	190 .....000 (27 zeros)	<input type="text"/> $\times 10^{\text{$

