



Project Number: 2018-1-IT02-KA201-048274

Monitoring Tool

Aim: Identify the basis and the exponent of a power and perform calculations that involve powers. Understand the patterns when the basis / exponent attain certain special values.

	Arithmetic	Geometry	Algebra
Memory			
Reasoning			
Visuospatial	X		

1. Calculate:

- a) $2^3 = \dots$
- b) $1^5 = \dots$
- c) $(-2)^3 = \dots$
- d) $(-1)^3 = \dots$
- e) $10^2 = \dots$
- f) $10^3 = \dots$
- g) $10^{10} = \dots$
- h) $3^3 = \dots$
- i) $\left(\frac{1}{2}\right)^3 = \dots$
- j) $\left(-\frac{1}{2}\right)^3 = \dots$

2. Answer

- a) How much is 1^{50} ? And 1^{500} ? And 1^{5000} ?
- b) How much is $(-1)^{10}$? And $(-1)^{50}$? And $(-1)^{500}$?
- c) How much is $(-1)^5$? And $(-1)^{55}$? And $(-1)^{555}$?
- d) List all possible values of 1^n , where n is a natural number?
- e) List all possible values of $(-1)^n$, where n is a natural number?

