

POWERS TEST - 1st COURSE OF ESO

NAME: _____ **GROUP:** _____

Exercise 1: (2 points) Write the name of the following powers

- a) 8^2
- b) 4^5
- c) 7^3
- d) 9^{17}

Exercise 2: (2 points) Find the value of these powers and write the answer both with figures and with words in English

- a) $2^5 =$
- b) $5^3 =$
- c) $10^4 =$
- d) $9^2 =$

Exercise 3: (3 points) Write as a single power

- a) $2^5 \cdot 2^7 =$
- b) $3^8 : 3^6 =$
- c) $(7^4)^8 =$
- d) $x^5 \cdot x \cdot x^4 =$
- e) $y^8 : y =$
- f) $3^2 \cdot 2^3 =$

Exercise 4: (2 points) Work out the value of these powers

- a) $(x \cdot x^3)^3 : x^4 =$
- b) $(7^3 \cdot 7^5) : (7 \cdot 7^7) =$
- c) $2 + 2^2 + 2^3 =$
- d) $[(t^2)^5]^0 \cdot (t^9 : t^7) =$

Exercise 5: (1 point) Find the value of the index

- a) $2^x = 128$
- b) $5^z = 625$