



USING EXPONENTS (POWERS) SHEET 1

Work out these exponents - remember the exponent is the number of times you need to multiply the number by itself.

Examples:

$$5^2 = 5 \times 5 = 25 \quad 2^4 = 2 \times 2 \times 2 \times 2 = 16 \quad 10^3 = 10 \times 10 \times 10 = 1000$$

$$1) 3^2 = 3 \times 3 = \underline{\quad} \quad 2) 2^3 = 2 \times 2 \times 2 = \underline{\quad} \quad 3) 6^2 = 6 \times 6 = \underline{\quad}$$

$$4) 9^2 = \underline{\quad} \times \underline{\quad} = \underline{\quad} \quad 5) 3^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad} \quad 6) 7^2 = \underline{\quad} \times \underline{\quad} = \underline{\quad}$$

Use a calculator to work out these exponents below:

$$7) 4^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad} \quad 8) 2^5 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$9) 5^4 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad} \quad 10) 9^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$11) 3^5 = \underline{\quad} \quad 12) 7^4 = \underline{\quad} \quad 13) 10^5 = \underline{\quad}$$

$$14) 2^7 = \underline{\quad} \quad 15) 9^5 = \underline{\quad} \quad 16) 16^3 = \underline{\quad}$$

$$17) 6^1 = \underline{\quad} \quad 18) 5^6 = \underline{\quad} \quad 19) 78^2 = \underline{\quad}$$

Work out these exponents, then put them in order, from smallest to largest.

$$5^6$$

$$2^9$$

$$6^4$$

$$9^3$$

$$10^4$$

$$7^5$$

Smallest

Largest

