

Name _____

Date _____



USING EXPONENTS SHEET 5:1

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

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USING EXPONENTS SHEET 5:1 ANSWERS

1) $3^2 = 3 \times 3 = 9$

2) $2^3 = 2 \times 2 \times 2 = 8$

3) $6^2 = 6 \times 6 = 36$

4) $9^2 = 9 \times 9 = 81$

5) $3^3 = 3 \times 3 \times 3 = 27$

6) $7^2 = 7 \times 7 = 49$

Use a calculator to work out these exponents below:

7) $4^3 = 4 \times 4 \times 4 = 64$

8) $2^5 = 2 \times 2 \times 2 \times 2 \times 2 = 32$

9) $5^4 = 5 \times 5 \times 5 \times 5 = 625$

10) $9^3 = 9 \times 9 \times 9 = 729$

11) $3^5 = 243$

12) $7^4 = 2401$

13) $10^5 = 100000$

14) $2^7 = 128$

15) $9^5 = 59049$

16) $16^3 = 4096$

17) $6^1 = 6$

18) $5^6 = 15625$

19) $78^2 = 6084$

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

$2^9 = 512$

$9^3 = 729$

$6^4 = 1296$

$10^4 = 10000$

$5^6 = 15625$

$7^5 = 16807$

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