

TEACHER'S NAME: _____

NAME: _____

CLASS: _____

1.1 INDEX NOTATION

A. State the base and index of the following indices.

Number	2^5	$(0.7)^6$
Base		
Index		

B. State the following repeated multiplications in index form.

Match the following.

$5 \times 5 \times 5 \times 5 \times 5 \times 5$

$5 \times 5 \times 5$

$(-4) \times (-4) \times (-4)$

$(-4) \times (-4) \times (-4) \times (-4)$

$k \times k \times k$

$k \times k \times k \times k \times k \times k \times k$

$(-4)^3$

k^7

5^3

k^3

$(-4)^4$

5^6

C. Calculate the value of the given index numbers.

1. $(0.7)^3 =$ _____

2. $\left(-\frac{2}{3}\right)^3 =$ _____ (Write in fraction. Example -5/6)

1.2 LAW OF INDICES

DRAG THE SUITABLE ANSWERS AND PUT THE ANSWERS IN THE SPACES PROVIDED.

$x = 3, -2$

14

m^8

$6w^{13}$

1

4^{15}

$x = 1, y = -\frac{2}{3}$

7^6

$7^8 \times 11^2$

4^7

h^3

4

1. Simplify $7^2 \times 7^4$ _____

2. Simplify $m^4 \times m^3 \times m$ _____

3. Simplify $2w^2 \times \frac{1}{5}w^3 \times 15w^8$ _____

4. Simplify $4^8 \div 4$ _____

5. Simplify $h^8 \div h^4 \div h$ _____

6. Simplify $(4^3)^5$ _____

7. Simplify $(7^4 \times 11)^2$ _____

8. Simplify $32^{\frac{2}{5}}$ _____

9. Find the value of x. $25^x \div 125 = \frac{1}{5^x}$ _____

10. Find the value of $\sqrt[3]{343} \times 3^{-1} \div (\sqrt{36})^{-1}$ _____

11. Find the possible values of x for the equation of $2^{x^2} \div 2^x = 64$ _____

12. Solve the simultaneous equation of $9(9)^x = 27^{y+2}$ and $4^x \times 8^y = 1$. _____