Warm Up
Grade 9

Write the following as a repeated multiple and evaluate

1) $(-5)^4$

$(-5)(-5)(-5)(-5)$

625

2) -2^5

$-(2 \cdot 2 \cdot 2 \cdot 2 \cdot 2)$

-32

3) $-(7)^3$

$-(7 \cdot 7 \cdot 7)$

-343

Write as a power then evaluate

1) $-(-2)(-2)(-3)(-3)(-3)$

$-(-2)^2 \times (-3)^3$

$-4 \times (-27)$

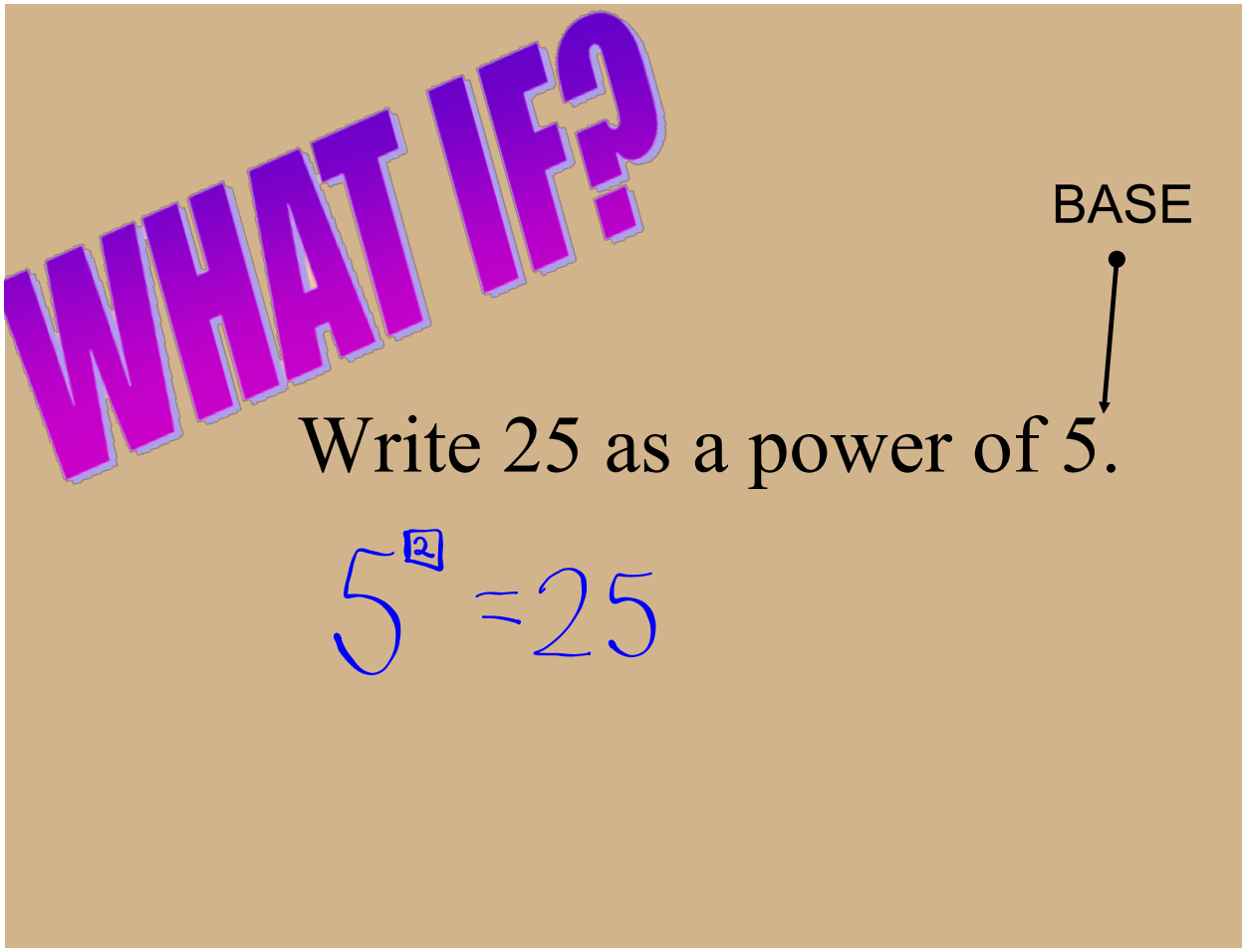
108

2) $(5)(5)(5)(5)(5)(5)$

$5^6 = 15625$

5

6



Write 64 as a power of 4

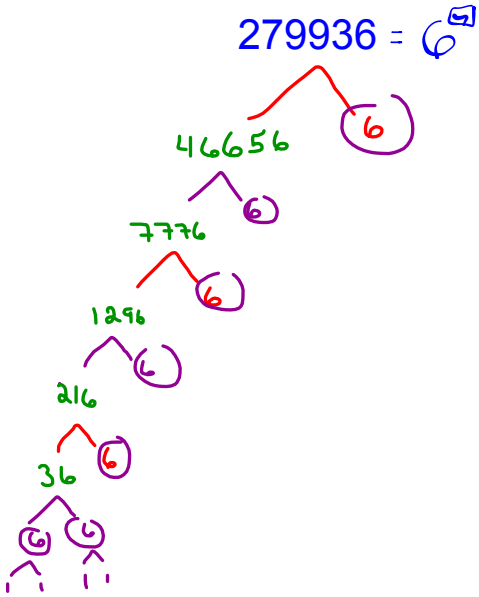
base

$4^{3} = 64$

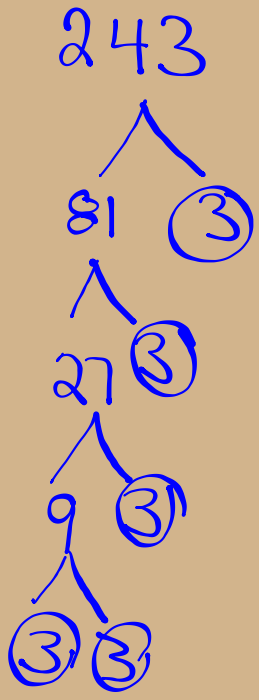
a) 4^{2} b) 4^{3} c) 4^{4} d) 4^{-3}

Write 279936 as a power of 6

$279936 = 6^{7}$



Express as a power of 3.

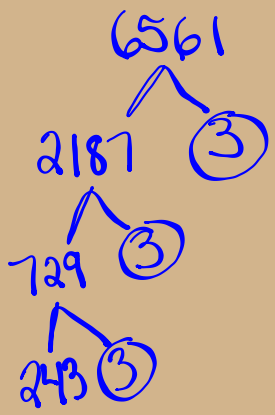


$9 = 3^{2}$

$243 = 3^{5}$

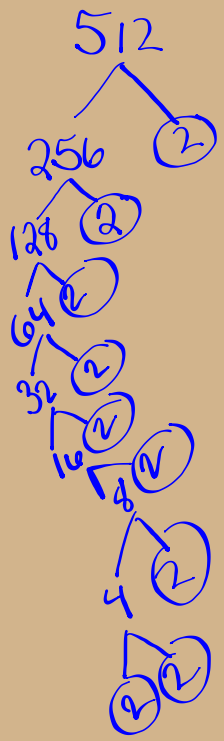
$27 = 3^{3}$

$6561 = 3^{8}$



Express as a power :

$512 = 2^{9}$



Write 16 as a power:

2^3 ← exp, ← base

$2 \times 2 \times 2$

$16 = 4^2$

$16 = 2^4$

$16 = 16^1$

Write 81 as a power:

Do not put 81^1

$81 = 9^2$

$81 = 3^4$

$81 = (-9)^2$

$(-3)^4$