

Base 2 \uparrow 5 ← Exponent
(tells how many times to multiply the Base by itself)

Homework for 11/27

$$2 \times 2 \times 2 \times 2 \times 2 = 32$$

math Antics[®]

Worksheets

Name: _____

Date: _____

Calculating Exponents

A-ITE 3

Instructions: Use a calculator to calculate the value of each exponent. (Note: Try to find a calculator that has the special exponent function (x^y) that we mentioned in the video, but if you can't, then just use the calculator to help you repeat the multiplication.)

1 $2^5 =$ 32

2 $4^3 =$ _____

3 $4^4 =$ _____

4 $3^3 =$ _____

5 $5^3 =$ _____

6 $6^3 =$ _____

7 $2^8 =$ _____

8 $7^3 =$ _____

9 $3^5 =$ _____

10 $10^3 =$ _____

11 $8^4 =$ _____

12 $5^5 =$ _____

13 $2^{10} =$ _____

14 $9^3 =$ _____

15 $3^6 =$ _____

16 $12^3 =$ _____

17 $15^3 =$ _____

18 $11^4 =$ _____

19 $6^5 =$ _____

20 $3^{10} =$ _____

pd

This side is for 5 Bonus Points onto your homework grade!

Name _____ Date _____ Class _____

LESSON

1-3

Challenge

Exponent Riddle

What is the greatest number that can be written with two digits?

Find the value of each expression below. Then in the box at the bottom of the page, write each expression's letter in the blank above its value. When you have found all the values, you will have solved the riddle.



E 3^3 _____

H 5^2 _____

I 2^4 _____

N 34^0 _____

O 9^2 _____

P 4^3 _____

R 6^2 _____

T 7^2 _____

W 10^2 _____

?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
?	1	16	1	27	49	81	49	25	27	?				
?	1	16	1	49	25	64	81	100	27	36	?			
?	?	?	?	?	?	?	?	?	?	?	?	?	?	?