#1

Which is equal to  $\frac{1}{4^7}$ ?







$$\left(-\frac{1}{4^{-7}}\right)$$

 $\bigcirc$ 







Show your work

#2

Which is equal to  $\frac{1}{3^2}$ ?





$$\left(-\frac{1}{3^{-2}}\right)$$









Show your work

#3

Which is equal to  $\frac{1}{4^2}$ ?



$$(4^{-2})$$

$$\left(-\frac{1}{4^{-2}}\right)$$







Name:

#4

Which is equal to  $5^{-6}$ ?

Show your work

#5

Which is equal to  $6^{-9}$ ?

$$\left(\frac{1}{9^{-6}}\right)\left(\frac{1}{9^6}\right)\left(\frac{1}{6^9}\right)\left(-\frac{1}{6^9}\right)$$

Show your work

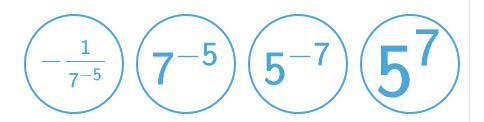
#6

Which is equal to  $3^{-4}$ ?

$$\left(\frac{1}{4^{-3}}\right)\left(\frac{1}{4^3}\right)\left(\frac{1}{3^4}\right)\left(-\frac{1}{3^4}\right)$$

#7

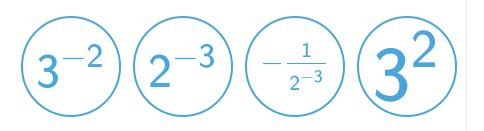
Which is equal to  $\frac{1}{7^5}$ ?



Show your work

#8

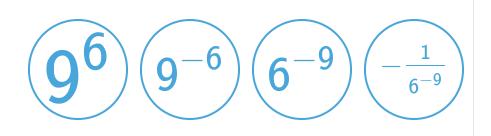
Which is equal to  $\frac{1}{2^3}$ ?



Show your work

#9

Which is equal to  $\frac{1}{6^9}$ ?



#10

Which is equal to  $9^{-6}$ ?



Show your work

#11

Which is equal to  $\frac{1}{4^5}$ ?



- $\bigcirc$

Show your work

#12

Which is equal to  $\frac{1}{4^9}$ ?



## **a+b** Understanding Negative Exponents

## Answer Key

Question	Answer
#1	choice 2
#2	choice 1
#3	choice 2
#4	choice 3
#5	choice 3
#6	choice 3
#7	choice 2
#8	choice 2
#9	choice 3
#10	choice 2
#11	choice 1
#12	choice 4