

# Introduction of Exponents

**1. Write the base and exponent.**

- A.  $5^8$
- B.  $9^4$
- C.  $(-16)^7$
- D.  $(-12)^{11}$

**2. Express in exponential form.**

- A.  $5 \times 5 \times 5 \times 5 \times 5$
- B.  $(-13) \times (-13) \times (-13) \times (-13) \times (-13) \times (-13) \times (-13)$
- C.  $8 \times 8 \times 8 \times 8 \times 9 \times 9 \times 9 \times 2 \times 2 \times 5$
- D.  $-1331$
- E.  $1024$
- F.  $\frac{81}{256}$

**3. Express in product form:**

- A.  $15^6$
- B.  $(-19)^3$
- C.  $(11)^{11}$

**4. Find the value of**

- A.  $(-33)^2$
- B.  $(-1)^{89}$
- C.  $(-5)^8$
- D.  $2^9$
- E.  $(-9)^2 \times (-3)^5$
- F.  $(-2)^7 \times 0 \times (-1)^{64}$
- G.  $(-16)^2 \times (-2)^5$
- H.  $(-1)^{111} \times (-1)^{63}$

**5. Which is greater?**

- A.  $3^5$  or  $5^3$
- B.  $6^3$  or  $3^6$
- C.  $100^2$  or  $200^{100}$


**6. To what power  $(-4)$  should be raised to get  $(-64)$ ?**

**7. To what power  $(-5)$  should be raised to get  $3125$ ?**

**8. Write T for true and F for false statement.**

- A.  $2^0 \times 0^1 = 0$
- B.  $(-8)^6 = -2,62,144$
- C.  $\left(\frac{-7}{15}\right)^{50} = \frac{-7^{50}}{15^{50}}$
- D. The product form of  $64$  is  $2 \times 2 \times 2 \times 2 \times 4$ .
- E. The exponential form of  $\frac{-5}{6} \times \frac{-5}{6} \times \frac{-5}{6} \times \frac{-5}{6} \times \frac{-5}{6} \times \frac{-5}{6}$  is  $\left(\frac{5}{6}\right)^6$