

# Exponents

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Evaluate the Exponents.

1)  $7a^3b^4 \times 2ab^2 =$  \_\_\_\_\_

2)  $12p^{-4} \times 4p^8 =$  \_\_\_\_\_

3)  $\left(\frac{5}{8}\right)^6 \times \left(\frac{5}{8}\right)^4 =$  \_\_\_\_\_

4)  $2rs^2 \times 5r^{-7}s^{-2} =$  \_\_\_\_\_

5)  $4x^4y^{-6} \times 5x^6 \times y^7 =$  \_\_\_\_\_

6)  $8m^{-9}n^2 \times 2m^{11}n^2 =$  \_\_\_\_\_

7)  $\left(\frac{a}{7b}\right)^{-6} \times \left(\frac{a}{7b}\right)^9 =$  \_\_\_\_\_

8)  $6b^4 \times 5b^{-6} \times 2b^7 =$  \_\_\_\_\_

9)  $7z^{-2} \times 6z^8 =$  \_\_\_\_\_

10)  $\left(\frac{1}{11}\right)^{-8} \times \left(\frac{1}{11}\right)^{10} =$  \_\_\_\_\_

11)  $12n^{-4} \times n^7 =$  \_\_\_\_\_

12)  $7s^8 \times 5s^{-6} =$  \_\_\_\_\_

13)  $2x^6 \times 2x^4 =$  \_\_\_\_\_

14)  $\left(\frac{10p}{2p}\right)^7 \times \left(\frac{10p}{2p}\right)^2 =$  \_\_\_\_\_

15)  $\left(\frac{7}{9c}\right)^8 \times \left(\frac{7}{9c}\right)^{-2} =$  \_\_\_\_\_

16)  $6b^4 \times 6b^{-11} =$  \_\_\_\_\_

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## Evaluate the Exponents.

$$1) \quad 7a^3b^4 \times 2ab^2 = \underline{14a^4b^6}$$

$$2) \quad 12p^{-4} \times 4p^8 = \underline{48p^4}$$

$$3) \quad \left(\frac{5}{8}\right)^6 \times \left(\frac{5}{8}\right)^4 = \underline{\left(\frac{5}{8}\right)^{10}}$$

$$4) \quad 2rs^2 \times 5r^{-7}s^{-2} = \underline{\frac{10}{r^6}}$$

$$5) \quad 4x^4y^{-6} \times 5x^6 \times y^7 = \underline{20x^{10}y}$$

$$6) \quad 8m^{-9}n^2 \times 2m^{11}n^2 = \underline{16m^2n^4}$$

$$7) \quad \left(\frac{a}{7b}\right)^{-6} \times \left(\frac{a}{7b}\right)^9 = \underline{\left(\frac{a}{7b}\right)^3}$$

$$8) \quad 6b^4 \times 5b^{-6} \times 2b^7 = \underline{60b^5}$$

$$9) \quad 7z^{-2} \times 6z^8 = \underline{42z^6}$$

$$10) \quad \left(\frac{1}{11}\right)^{-8} \times \left(\frac{1}{11}\right)^{10} = \underline{\left(\frac{1}{11}\right)^2}$$

$$11) \quad 12n^{-4} \times n^7 = \underline{12n^3}$$

$$12) \quad 7s^8 \times 5s^{-6} = \underline{35s^2}$$

$$13) \quad 2x^6 \times 2x^4 = \underline{4x^{10}}$$

$$14) \quad \left(\frac{10p}{2p}\right)^7 \times \left(\frac{10p}{2p}\right)^2 = \underline{\left(\frac{10p}{2p}\right)^9}$$

$$15) \quad \left(\frac{7}{9c}\right)^8 \times \left(\frac{7}{9c}\right)^{-2} = \underline{\left(\frac{7}{9c}\right)^6}$$

$$16) \quad 6b^4 \times 6b^{-11} = \underline{\frac{36}{b^7}}$$