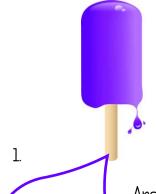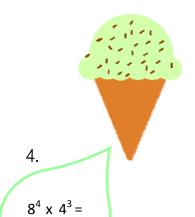Name _____   Date _____

Summer is for Eating Popsicles and Ice Cream and Simplify Expression Involving Exponents

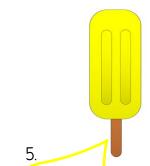Directions: Solve for the following expressions involving exponents.

1.

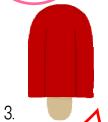$6^2 \times 3^5 =$

Answer: _____

2.

$\dfrac{9^8}{9^4} =$

Answer: _____

3.

$\dfrac{7^9}{7^3} =$

Answer: _____

4.

$8^4 \times 4^3 =$

Answer: _____

5.

$5^2 \times 6^5 =$

Answer: _____
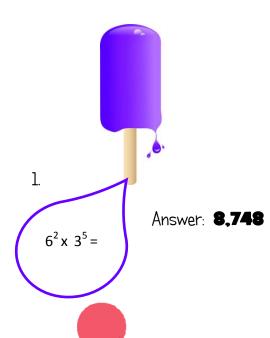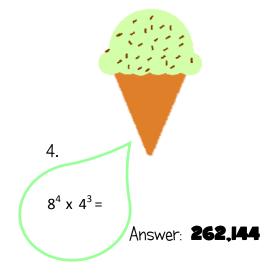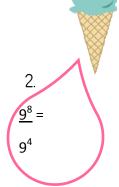
6.

$\dfrac{6^7}{6^2} =$

Answer: _____

Name _____   Date _____

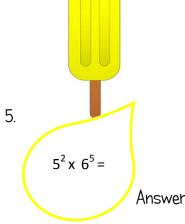Summer is for Eating Popsicles and Ice Cream and Simplify Expression Involving Exponents
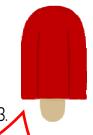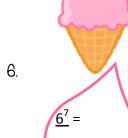
Answer Key

1.

Answer: **8,748**

$6^2 \times 3^5 =$

4.

$8^4 \times 4^3 =$

Answer: **262,144**

2.

Answer: **6,561**

$\dfrac{9^8}{9^4}$

5.

$5^2 \times 6^5 =$

Answer: **194,400**

3.

Answer: **117,649**

$\dfrac{7^9}{7^3}$

6.

Answer: **7,776**

$\dfrac{6^7}{6^2}$