

Name _____

Ice Cream

1. Sales: An ice cream shop sells ice cream cones for \$3 each. If the shop sells x ice cream cones, write an algebraic expression for the total revenue.
2. Toppings: A customer can choose up to 3 toppings for their ice cream. If there are t total toppings available, write an algebraic expression for the number of different combinations of toppings.
3. Sundae Calories: An ice cream sundae has 300 calories per serving. If a person consumes c servings, write an algebraic expression for the total number of calories consumed.
4. Scoops: An ice cream parlor offers 10 different flavors. If a customer wants to order s scoops of ice cream and can choose from any flavor, write an algebraic expression for the number of different ice cream orders.
5. Inventory: An ice cream shop has an initial inventory of 200 ice cream tubs. If the shop sells d tubs per day and restocks r tubs each week, write an algebraic expression for the number of tubs in stock after w weeks.
6. Pricing: An ice cream truck sells ice cream cones for \$2 each and ice cream cups for \$1.50 each. If the truck sells c cups and d cones, write an algebraic expression for the total revenue.
7. Consumption: A family consumes an average of 4 pints of ice cream per month. If there are 4 members in the family, write an algebraic expression for the average monthly ice cream consumption per person.
8. Discounts: An ice cream shop offers a 20% discount on all ice cream cakes. If the original price of an ice cream cake is p dollars, write an algebraic expression for the discounted price.
9. Parlor Capacity: An ice cream parlor can accommodate a maximum of 30 customers at a time. If each customer spends an average of 20 minutes in the parlor, write an algebraic expression for the total time, in hours, spent by customers in the parlor.
10. Production Cost: An ice cream factory produces 500 gallons of ice cream per day. If the production cost is \$2 per gallon, write an algebraic expression for the daily production cost.

