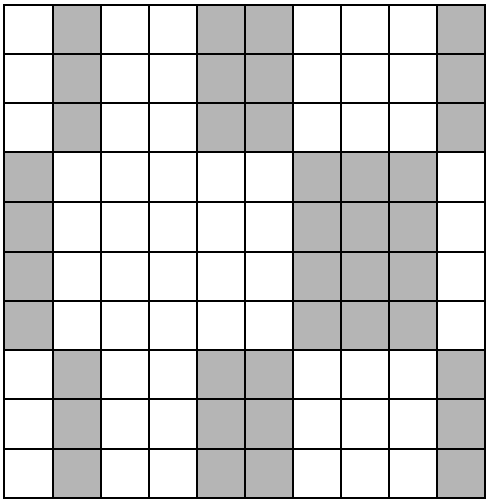
Understanding Decimals
Use What You've Learned

The shaded portion of each of the following grids represents the weight of one diamond in carats. Write the weight of each diamond as a fraction and as a decimal. Each 10-by-10 grid represents one carat.

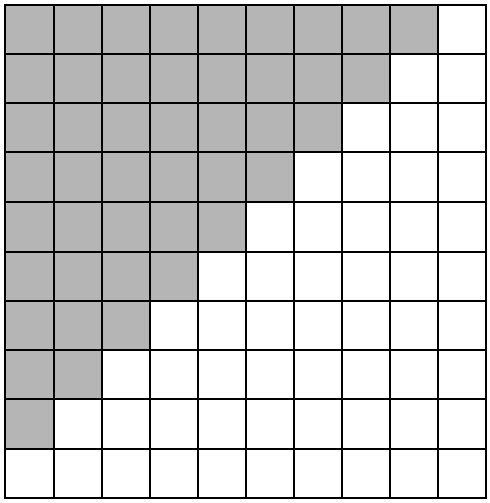
1. Fraction:

   Decimal:



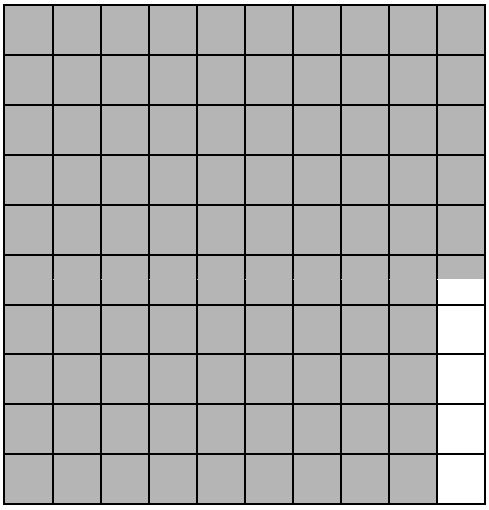
2. Fraction:

   Decimal:



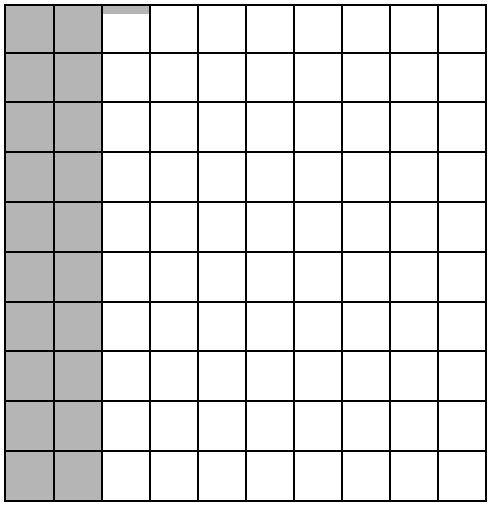
3. Fraction:

   Decimal:



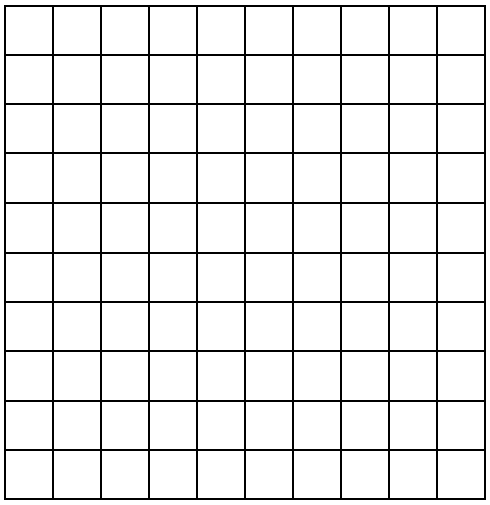
4. Fraction:

   Decimal:



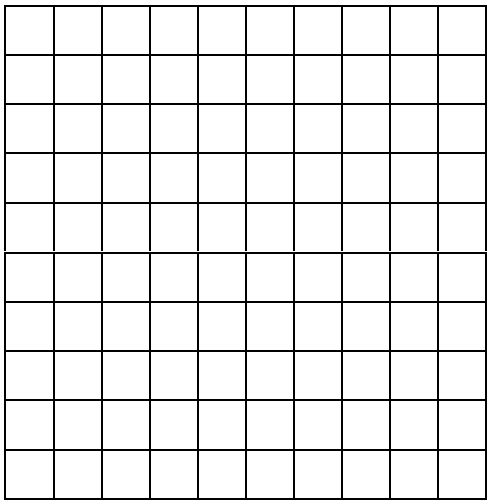
The following problems give the diameter of different kinds of coins in inches. Represent each number by shading the grid and writing the number as a fraction.

5. Penny: 0.750 inches



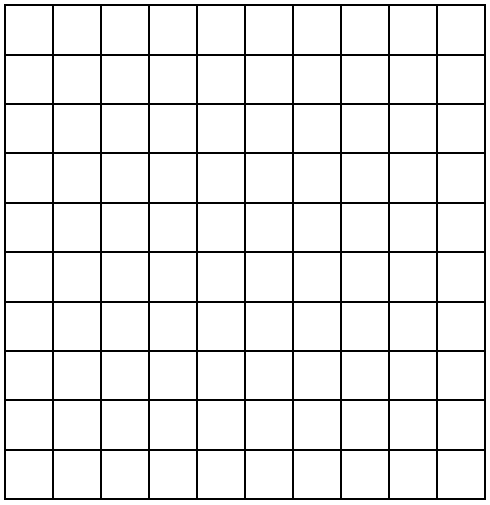
Fraction:

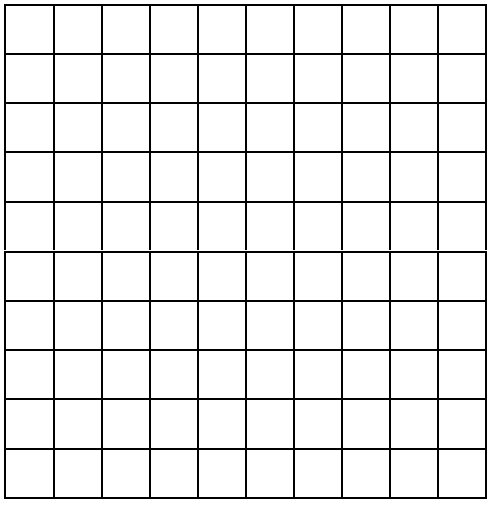
6. Dime: 0.705 inches



Fraction:

7. Half dollar: 1.205 inches





Fraction:

8. The diameter of the Presidential dollar is one and forty-three thousandths inches. Write this number as a fraction and as a decimal.

   Fraction: Decimal:

9. Use the following clues to determine the diameter of a nickel.

   The diameter is less than one inch.

   The sum of the digits in hundredths place and thousandths place equals the digit in the tenths place.

   There is a five in the thousandths place.

   The digit in the tenths place is even.

   The digit in the hundredths place is not one.

   What is the diameter of a nickel in inches? _____

10. How do you read the answer to problem 9? Write the number in words.