ACTIVITY FOUR

Fruit for Thought

Each type of fruit represents a single digit (0 - 9). Using what you know about the number system, determine the value of each fruit.

Mystery Letters

This problem gives you the chance to:
• form and solve equations

A	A	A	A	8
E	B	F	C	17
A	D	A	D	16
B	A	G	C	11
9	11	14	18	

In this table, each letter of the alphabet represents a different number.

The sum of the numbers in each row is written on the right hand side of the table.

The sum of the numbers in each column is written below the table.

Find the number represented by each letter.

A = ____   B = ____   C = ____   D = ____   E = ____   F = ____   G = ____
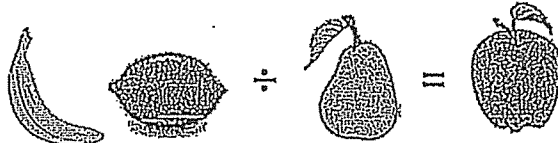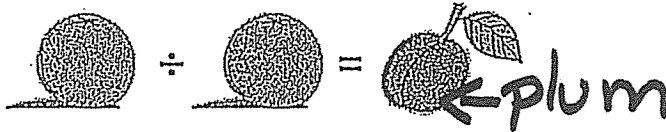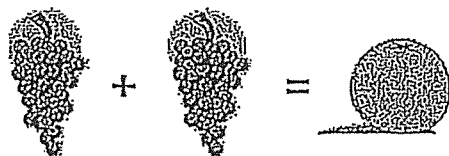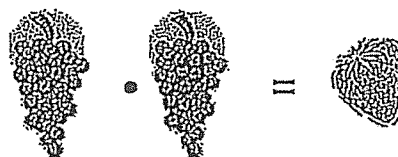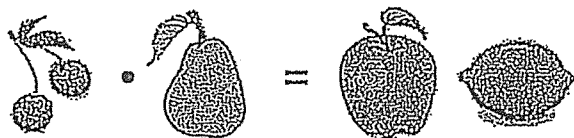
Show how you figured it out.

Facts in Fruit

Each type of fruit represents a single digit (0 – 9). Each fruit represents the same number in every equation.   Two pieces of fruit next to each other without an operation is a two-digit number.

← plum

1. What digit does the lime represent? _____
    How do you know?

2. The digit 1 equals _____.
    Explain your reasoning.

3. Grape =
   Banana =
   Orange =
   Strawberry =
   Apple =
   Pear =
   Cherry =

THE PUZZLE

This problem gives you the chance to:
• Solve and reason about equations

A magazine contains a puzzle.

Each symbol represents a number.

Different symbols have different values.

The sum of each row is given at the side of the table.

Find out the value for each symbol. Explain how you figured it out.

heart = ♥ , spade = ♠ , club ♣, diamond = ♦.

[5]