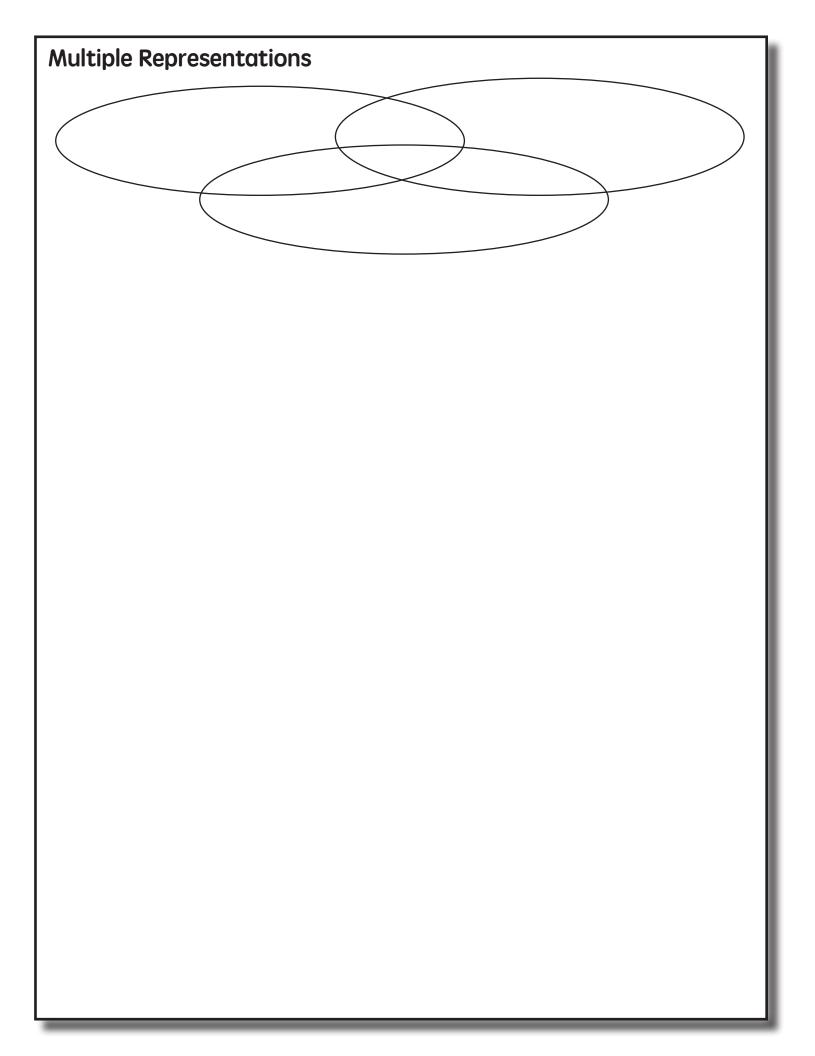


E>	Explicit Instruction			

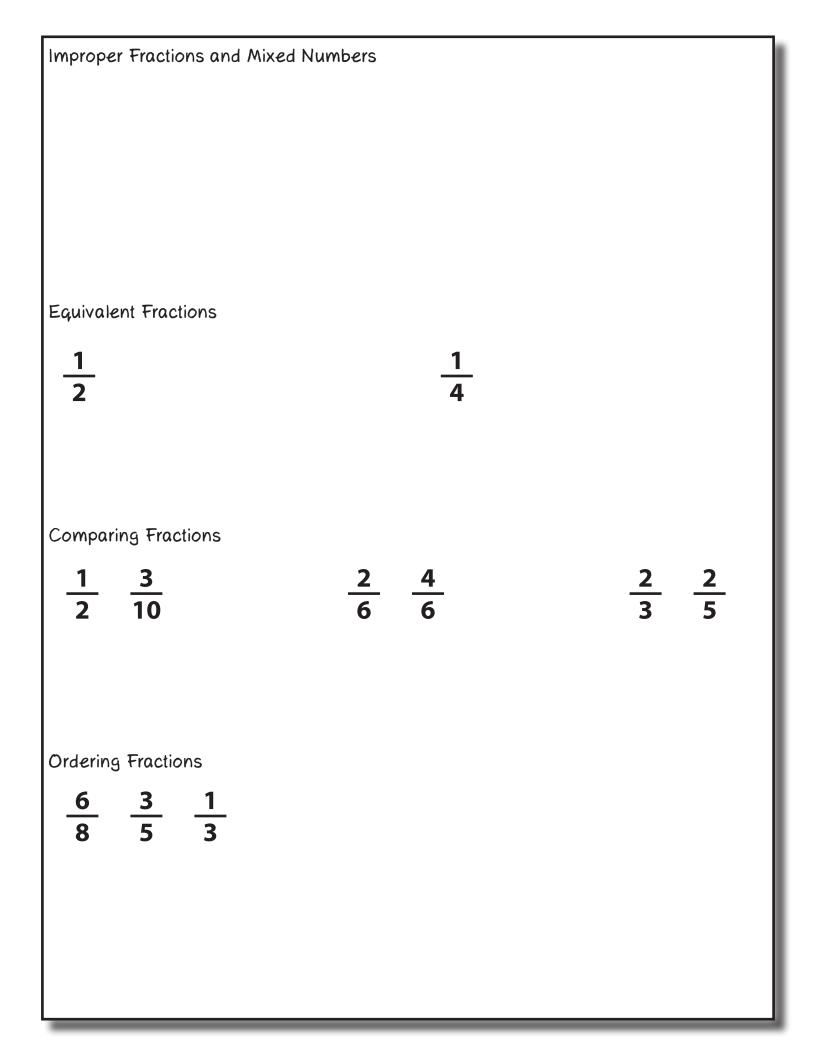
Mathematical Language

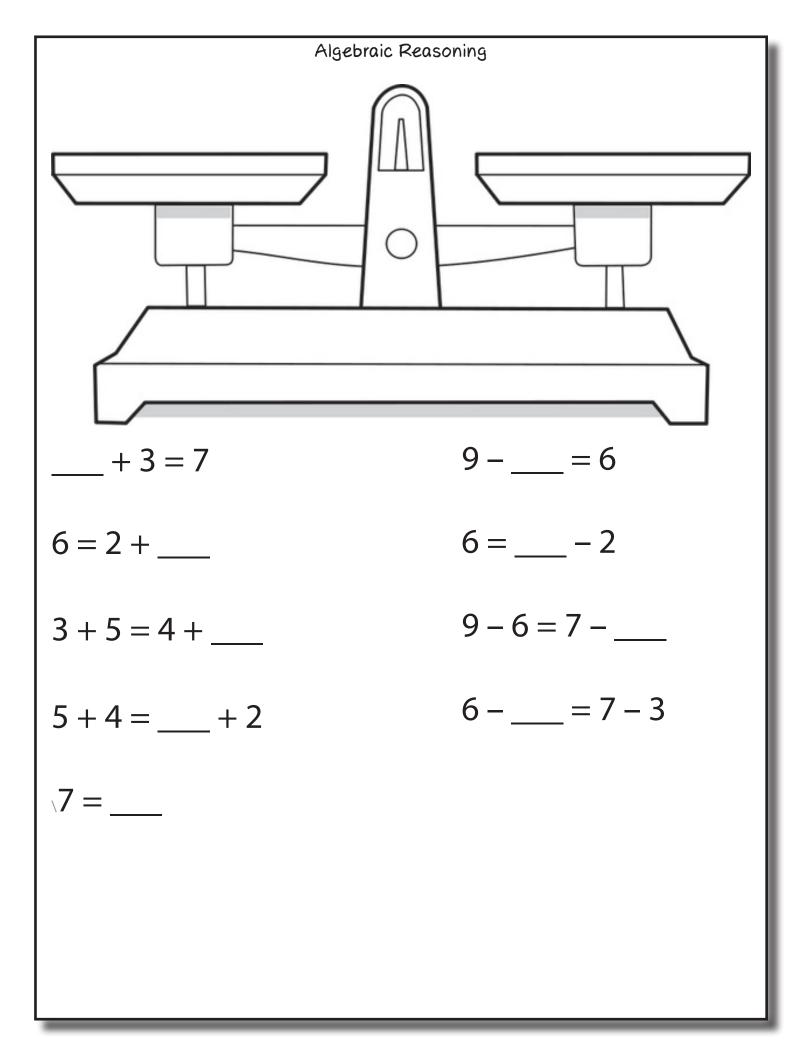
Instead of that	Say this



Place Value		
Hundreds	Tens	Ones
I		1

	Fractions				
Three Models					
Fraction	Length	Area	Set		
<u>2</u> 3					
<u>1</u> 4					
1 <u>1</u> 2					
<u>3</u> 7					
		1	I		

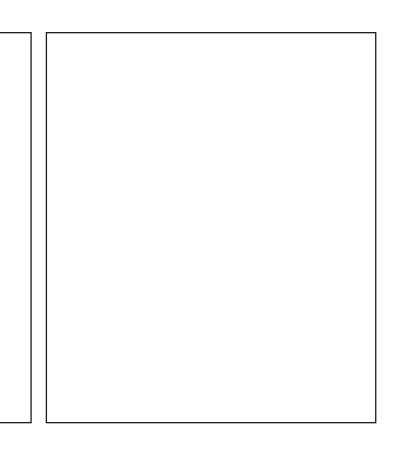


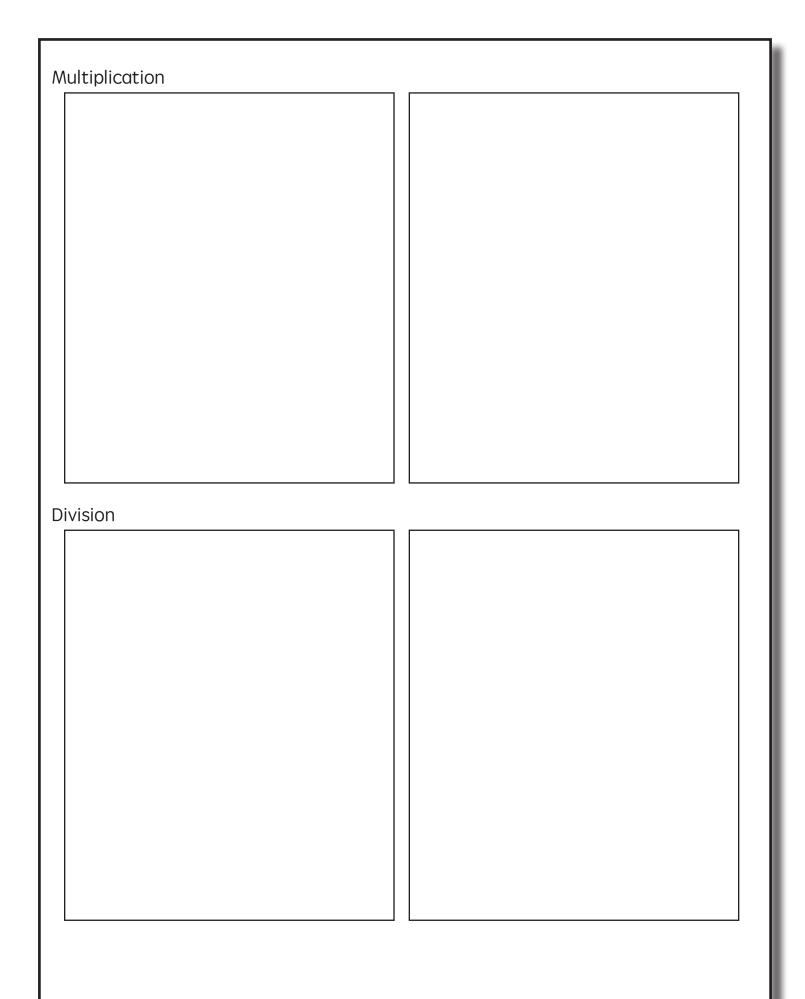


Solving Equations			
With Plates and Manipulatives			
Problem	Representations		
x + 2 = 5			
x + 2 = 5			
4 + x = 6			
5 = x - 3			
-2 = x + 3			
With Algebra Tiles			
Problem	Representations		
x + 2 = 5			
$4 + \mathbf{x} = 6$			
5 = x - 3			
-2 = x + 3			

Addition

Subtraction





007 . 105	000 1/4
227 + 185 =	232 - 164 =
	1

on: Multiplication and Division	015 - 14
183 × 27 =	815 ÷ 16 =

	Fractions
Addition and	Subtraction
Problem	Representation
$\frac{1}{5} + \frac{3}{5}$	
$\frac{2}{3} + \frac{2}{3}$	
$\frac{1}{2} + \frac{1}{4}$	
$\frac{1}{4} + \frac{4}{6}$	
$\frac{4}{5} - \frac{1}{5}$	
$\frac{6}{5} - \frac{2}{5}$	
$\frac{7}{8} - \frac{2}{4}$	
$\frac{1}{2} - \frac{2}{5}$	

Fractions				
Multiplication				
Problem	Representation			
$2 \times \frac{1}{4}$				
$\frac{1}{2} \times \frac{4}{4}$				
$\frac{1}{2} \times \frac{2}{4}$				
$\frac{1}{2} \times \frac{3}{4}$				
$\frac{2}{3} \times \frac{3}{3}$				
$\frac{4}{5} \times \frac{5}{6}$				
$\frac{2}{3} \times \frac{3}{4}$				
$\frac{1}{4} \times \frac{1}{3}$				

Fractions				
Division				
Problem	Representation			
$\frac{3}{3}$ ÷ 3				
$\frac{3}{3} \div \frac{1}{3}$				
$\frac{2}{3} \div \frac{1}{3}$				
$\frac{5}{6} \div \frac{1}{2}$				
$\frac{7}{8} \div \frac{3}{4}$				
$\frac{1}{4} \div \frac{1}{2}$				
$\frac{3}{4} \div \frac{2}{3}$				
$\frac{4}{5} \div \frac{1}{2}$				

Problem Solving				
Three Things to Remember				
Attack Strategies]			
L				

Graphic organizer				
Equation				
		Lesser unknown	Change unknown	Change unknown
Examples	Part unknown	Greater unknown	Start unknown	Start unknown
	Total unknown	Difference unknown	End unknown	End unknown
Definition				
Problem type	Total	Difference	Change (increase)	Change (decrease)

Additive Word Problems

Additive Word Problems		
A. Megan baked 28 sugar cookies and 24 chocolate chip cookies. Enter the total number of cookies Megan baked in all.	B. A banana farm received a total of 12 millimeters of rain in March and April. If 11 millimeters of rain fell on the farm in March, how many millimeters of rain fell on the farm in April?	
C. Jana has 107 wooden beads and 68 glass beads. How many more wooden beads than glass beads does Jana have?	D. Farmer Hank has 6 more cows than horses. He has 4 horses. He also has 9 chickens. How many cows does he have?	

Additive Word Problems		
E. A bus had 13 passengers. At the next stop, more passengers got on the bus. Now, there are 28 passengers. How many passengers got on the bus?	F. Martina had some money. Then, she spent \$42 on a sweater. Now, she has \$13. How much money did she have to start with?	

Multiplicative Word Problems

		Multiplicative wo		
Graphic organizer				
Equation				
Examples				
Exar				
Definition				
Problem type	Equal Groups	Comparison	Combinations	Ratios and Proportions

Multiplicative Word Problems		
A.	B.	
Ms. Thompson sold 6 cartons of cherries at the	Jane bought 24 light bulbs. The light bulbs come	
Farmers' Market. Each carton holds 25 cherries.	in packs of 4. How many packs of light blubs did	
How many cherries did she sell?	Jane buy?	
C.	D.	
Isabella has 2 times as many DVDs as Emma.	There are 176 slices of bread in 8 loaves. If there	
Emma has 6 DVDs. How many DVDs does Isabella	are the same number of slices in each loaf, how	
have?	many slices of bread are in 5 loaves?	

Multiplicative Word Problems		
E. A sea turtle made 460 dives in 12 hours. At this rate, how many dives did the sea turtle make in 3 hours?	F. Yvette correctly answers 85% of the total questions on her science test. She correctly answers 34 questions. What was the total number of questions on Yvette's science test?	
G. A crocodile is 18 feet long. An alligator is 3/4 of that length. How long is the alligator?	H. Susan has 3 times as many books as Mary. Mary has 18 books. Which equation can be solved to figure out how many books Susan has?	

Multiplicative Word Problems		
I. Matt bought 1 orange and 3 apples for a total of \$2.25 The orange cost \$0.60. The apples each cost the same amount. What amount did Matt pay to bu each apple?	J. There are 12 apple trees. Alex picks 11 apples from each tree. He eats 8 of the apples that he picked. How many apples does Alex have left?	
K. A teacher buys 6 bages of snack mix. Each bag contains 2.5 cups of snack mix. The snack mix is shared evenly among 30 students. How many cups of snack mix will each student receive?		