



Types of Problem Solving Situations

	Problem		Method		Solution	
	Presenter	Solver	Presenter	Solver	Presenter	Solver
I	Known	Known	Known	Known	Known	Unknown
II	Known	Known	Known	Unknown	Known	Unknown
III	Known	Known	Range	Unknown	Known	Unknown
IV	Known	Known	Range	Unknown	Range	Unknown
V	Known	Known	Unknown	Unknown	Unknown	Unknown
VI	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

Problem Type I Math Assessment Example (K-2)

Problem Type II Math Assessment Example (K-2)

Problem Type III Math Assessment Example (K-2)

Jerrica had 10 toys. She gave 5 toys to her sister and 3 toys to her brother. How many toys does Jerrica have now?

Problem Type IV Math Assessment Example (K-2)

Use these numbers to write true addition or subtraction problems:

11.	2	5	3	$2+3=5$ ✓	$3+2=5$ ✓	$5-3=2$ ✓	$5-2=3$ ✓
12.	9	1	8	$1+8=9$ ✓	$8+1=9$ ✓	$9-8=1$ ✓	$9-1=8$ ✓
13.	4	3	7	$4+3=7$ ✓	$3+4=7$ ✓	$7-4=3$ ✓	$7-3=4$ ✓
14.	12	2	10	$10+2=12$ ✓	$2+10=12$ ✓	$12-10=2$ ✓	$12-2=10$ ✓

Problem Type V Math Assessment Example (K-2)

Write as many problems as possible that have 10 as the answer. You may use the back of this paper.

$1+9=10$ ✓	$9+1=10$ ✓	$17-7=10$ ✓	$100-90=10$ ✓
$2+8=10$ ✓	$10+0=10$ ✓	$18-8=10$ ✓	
$3+7=10$ ✓	$11-1=10$ ✓	$19-9=10$ ✓	
$4+6=10$ ✓	$12-2=10$ ✓	$20-10=10$ ✓	
$5+5=10$ ✓	$13-3=10$ ✓	$21-11=10$ ✓	
$6+4=10$ ✓	$14-4=10$ ✓	$22-12=10$ ✓	
$7+3=10$ ✓	$15-5=10$ ✓	$23-13=10$ ✓	
$8+2=10$ ✓	$16-6=10$ ✓	$24-14=10$ ✓	

Problem Type VI Math Assessment Example (K-2)

Choose a number, an operation, or any other math idea, and show it in as many ways as you can.

Problem Type I Math Assessment Example (6-8)

Work these Problems.

$$4/5 \times 6/2 =$$

$$\$13.72 + 49.86 =$$

$$35.1 \times 8.2 =$$

Problem Type II Math Assessment Example (6-8)

97	65	32	10	4	
41	32		3	2	
					360

Problem Type III Math Assessment Example (6-8)

What is the sum of the internal angles of the shape "x" in the table?

Shapes	Sum of internal angles	Number of sides
Triangle	180	3
Pentagon	540	5
Heptagon	900	7
X	?	14

Ugur Sak (2005)

Problem Type IV Math Assessment Example (6-8)

Make number sentences that are correct
using only these numbers:

5.5 2.1 11.55 _____
1/4 5/8 3/8 _____



Problem Type V Math Assessment Example (6-8)

Write as many number sentences as you
can that equal 24.

= 24 = 24
= 24 = 24



Problem Type VI Math Assessment Example (6-8)

Make different shapes that have different
areas, using only one pipe-cleaner 20 inches
in length. { ————— } Prove your answers.

Examples:

A= 25
P= 20

A= 16
P= 20

A= 20
P= 20

Ugur Sak (2005)

