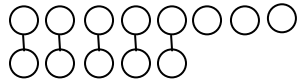


Approaches to Subtraction

1. Three methods of subtraction occur in problems and are given below. Each can represent the subtraction sentence $8 - 5 = ?$. Suggest appropriate names for each of these ways to subtract.

- I have 8 apples and my friend has 5 apples. How many more apples do I have than my friend?



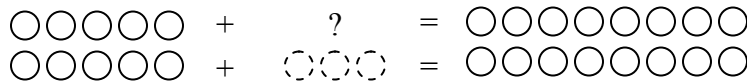
This approach might be called the _____ Method.

- I have 8 apples and I give away 5 apples. How many apples do I have?



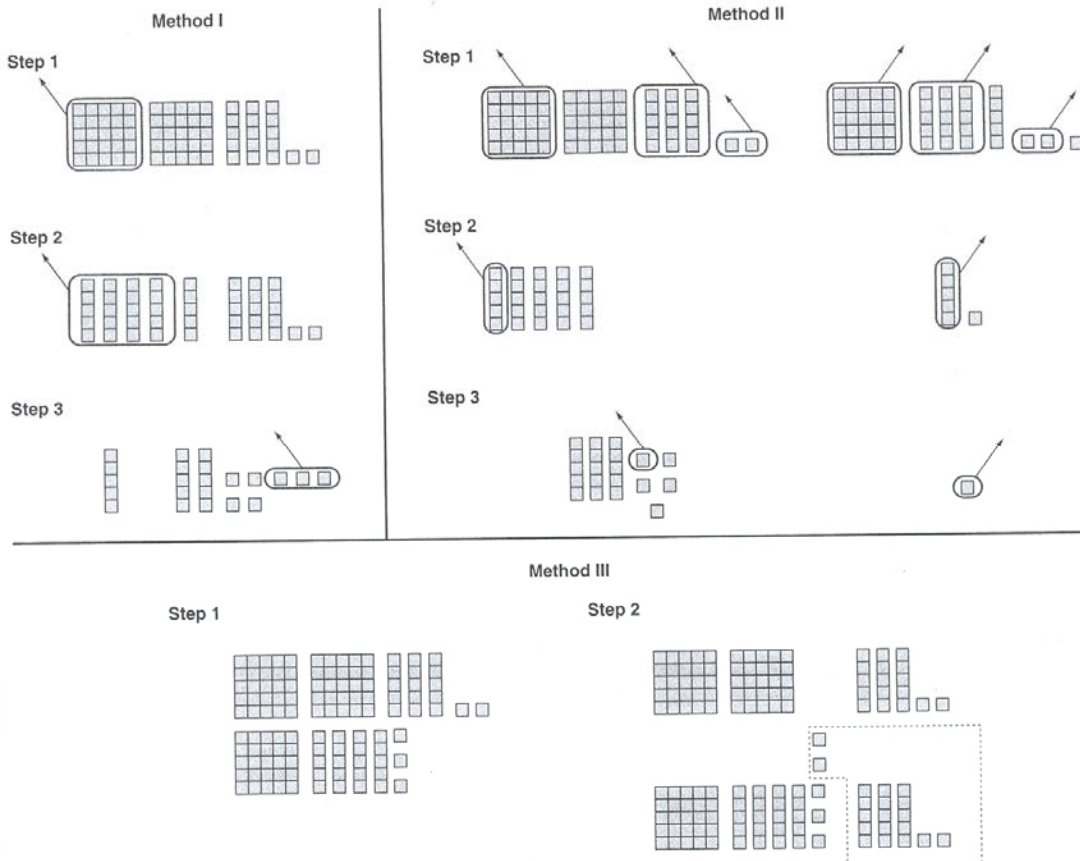
This approach might be called the _____ Method.

- I have 5 apples and I need 8 apples. How many more apples do I need?



This approach might be called the _____ Method.

2. Here are three methods that Xmanian students have been observed using to determine $BCB - ADC$ with their base pieces. Work through each method using your green base pieces. Then briefly explain the strategy or technique you believe was used in each method and give a name for the method.



3. Xavier must find $AB - D$.
 He writes $AB - D = ?$ and thinks about fact families,
 which helps him write $D + ? = AB$.
 He uses the addition table to find the answer.
 What is the answer to $AB - D$? _____
 What is the name of the method he used?

Addition Table

+	O	A	B	C	D	AO
O	O	A	B	C	D	AO
A	A	B	C	D	AO	AA
B	B	C	D	AO	AA	AB
C	C	D	AO	AA	AB	AC
D	D	AO	AA	AB	AC	AD
AO	AO	AA	AB	AC	AD	BO

4. To find $ACC - DD$, Zally counts
 up D rows and back (left) D spaces on the Number Grid.
 What is the answer to $ACC - DD$? _____
 What is the name of the method she used?

Number Grid

A	B	C	D	AO
AA	AB	AC	AD	BO
BA	BB	BC	BD	CO
CA	CB	CC	CD	DO
DA	DB	DC	DD	AOO
AOA	AOB	AOC	AOD	AAO
AAA	AAB	AAC	AAD	ABO
ABA	ABB	ABC	ABD	ACO
ACA	ACB	ACC	ACD	ADO

5. To find $ACC - DD$, Zathura finds how many
 rows and spaces she must count backward to reach
 the number DD on the Number Grid.
 What is the answer to $ACC - DD$? _____
 What is the name of the method she used?

Number Grid

A	B	C	D	AO
AA	AB	AC	AD	BO
BA	BB	BC	BD	CO
CA	CB	CC	CD	DO
DA	DB	DC	DD	AOO
AOA	AOB	AOC	AOD	AAO
AAA	AAB	AAC	AAD	ABO
ABA	ABB	ABC	ABD	ACO
ACA	ACB	ACC	ACD	ADO