Exploring Addition with Cuisenaire® Rods

Color the rods.
Complete each addition sentence.

If **W** = 1, then...

1.

Brown	
W	Black

$1 + 7 = 8$

2.

Brown	
Red	Dark Green

$\boxed{} + \boxed{} = 8$

3.

Brown	
Light Green	Yellow

$\boxed{} + \boxed{} = 8$

4.

Brown	
Purple	Purple

$\boxed{} + \boxed{} = 8$

Recording Addition Sentences

Color the rods.
Complete each addition sentence.

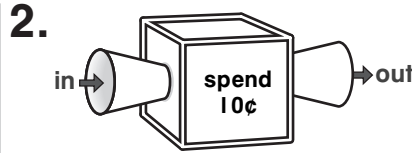If $\boxed{W}$ = 1, then...

1.

Black
Red	Yellow

$\boxed{2}$ + $\boxed{5}$ = $\boxed{7}$

2.

Dark Green
Red	Purple

$\boxed{}$ + $\boxed{}$ = $\boxed{}$

3.

Blue
Purple	Yellow

$\boxed{}$ + $\boxed{}$ = $\boxed{}$

4.

Orange
Yellow	Yellow

$\boxed{}$ + $\boxed{}$ = $\boxed{}$

Exploring Input/Output Tables

What is missing?

1.

in → subtract 3 → out

in	out
9	6
5	2
10	
	4
	3
3	
	5

2.

in → spend 10¢ → out
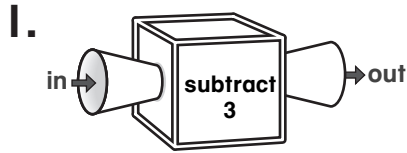
in	out
53¢	43¢
67¢	
	68¢
70¢	
	83¢
	72¢
	90¢

3.

in → 1 hour earlier → out
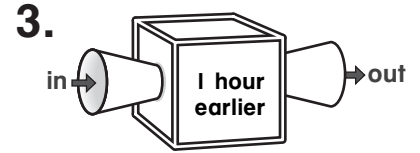
in	out
2:00	1:00
3:00	2:00
5:30	:
12:00	:
:	8:00
:	5:30
:	6:30

Using Input/Output Tables

What is missing?

1.

in → add 4 → subtract 2 → out

in	4	7	3	6	8	9	
out	6						7

2.

in → double → subtract 10 → out
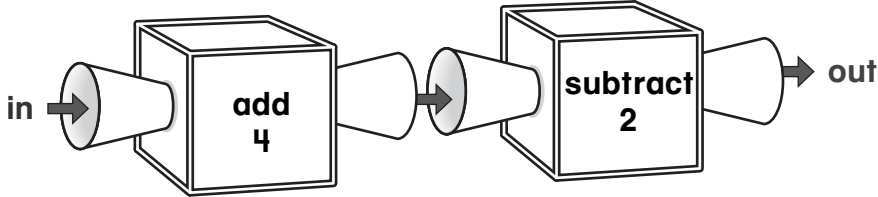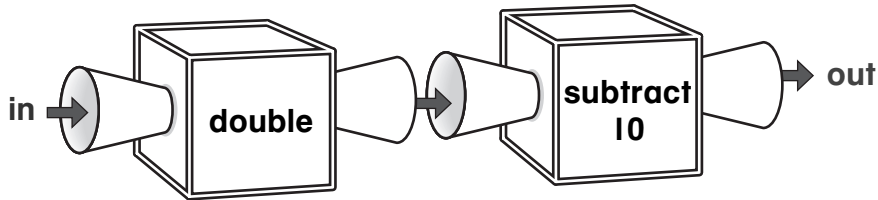
in	5	8	10	7	6		
out	0					8	12

3.

in → subtract 6 → add 6 → out
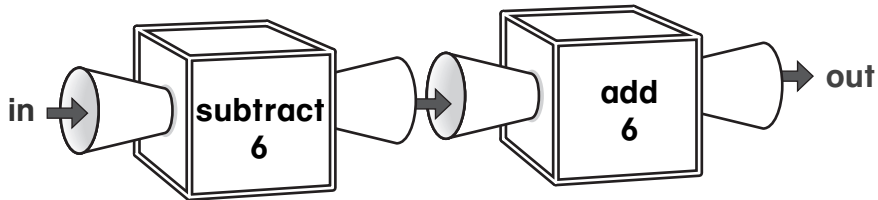
in	12	10	6	8	11	7	
out	12						9

Making Fact Families

What is the fact family?

1.

● ● ● ○
○ ○ ○ ○
○ ○ ○ ○

3 + 9 = 12
_____

___ + ___ = ___
_____

12 − ___ = 9
_____

12 − ___ = ___
_____

2.

○ ○ ○ ○
● ● ○ ○
● ● ● ●

___ + ___ = ___
_____

___ + ___ = ___
_____

___ − ___ = ___
_____

___ − ___ = ___
_____

3.

● ● ● ○
● ○ ○ ○
○ ○ ○ ○

+ ___   + ___   − ___   − ___
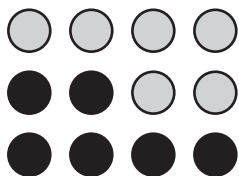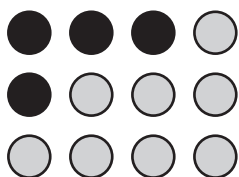
Fact Families and Stair-Step Numbers

What is the fact family?

1.
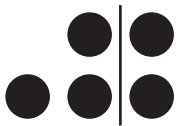
3 + 2 = 5
_____
2 + 3 =
_____
5 − 2 =
_____
5 − 3 =
_____

2.
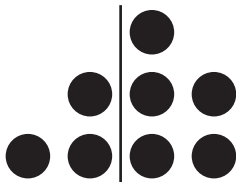
3 + 5 =
_____
+ =
_____
− =
_____
− =
_____

3.
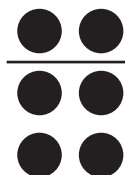
2 + 4 =
_____
+ =
_____
− =
_____
− =
_____

4.

2 + 5 =
_____
+ =
_____
− =
_____

5.
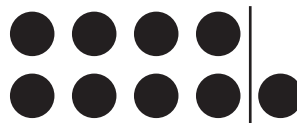
8 + 1 =
_____
+ =
_____
− =
_____

Connecting Stories and Fact Families

What is the fact family?

1. Spot has 6 toys.
2 are balls.
The others are ropes.

$2 + 4 = 6$

$4 + 2 = 6$

$6 - 4 =$

$6 - =$

2. All of Jane's hats
are red or blue.
4 are red.
5 are blue.

$ + = $

$ + = $

$ - = $

$ - = $

3. 3 fish are gold.
The rest are blue.
There are 11 fish.

$ + = $

$ + = $

$ - = $

$ - = $

Two-Sentence Fact Families

What is the fact family?

1.

☆☆☆☆
★★★★★★

_____ + _____ = _____

_____ + _____ = _____

_____ − _____ = _____

_____ − _____ = _____

2.

☆☆☆
★★★★★★

_____ + _____ = _____

_____ + _____ = _____

_____ − _____ = _____

_____ − _____ = _____

3. Liz has 6 flowers.
3 are red.
The rest are yellow.

_____ + _____ = _____

_____ − _____ = _____

4. Adam and Pete have
the same number of
marbles. Together they
have 12 marbles.

_____ + _____ = _____

_____ − _____ = _____