Adding with Cuisenaire® Rods

**Write the missing letter for the color of each rod.
Complete each number sentence.**

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

1.

| B |
| W | Y | |

$1 + 5 + 1 = 7$

2.

| |
| | P | R |

$\square + \square + \square = \square$

3.

| |
| | G | |

$\square + \square + \square = \square$

4.

| |
| | | |

$\square + \square + \square = \square$

Recording Addition Sentences

Complete each addition sentence.

If $\boxed{W} = 2$, then...

1.

	G	
W	W	W

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

2.

G	
R	W

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

3.

	Y	
W	P	

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

4.

	Y	
G	R	

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

Completing Input/Output Tables

Find a rule. Complete the table.

1.

in → [add 5¢] → out
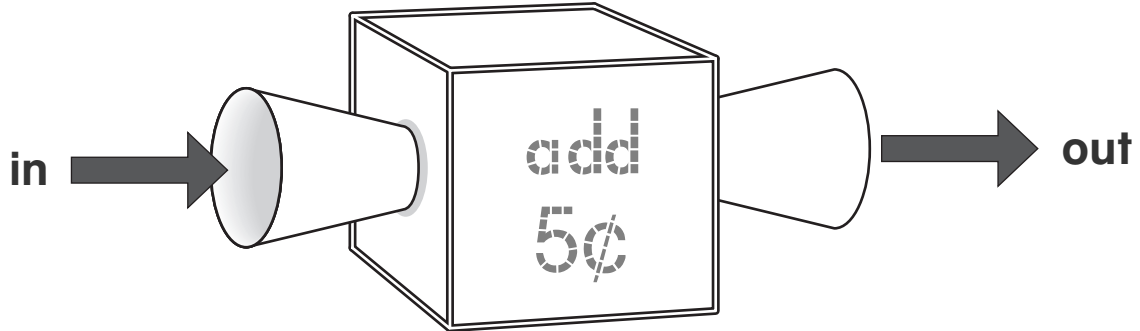
in	50¢	10¢	45¢			30¢	65¢
out	55¢	15¢	50¢	25¢	80¢		

2.

in → [ ] → out
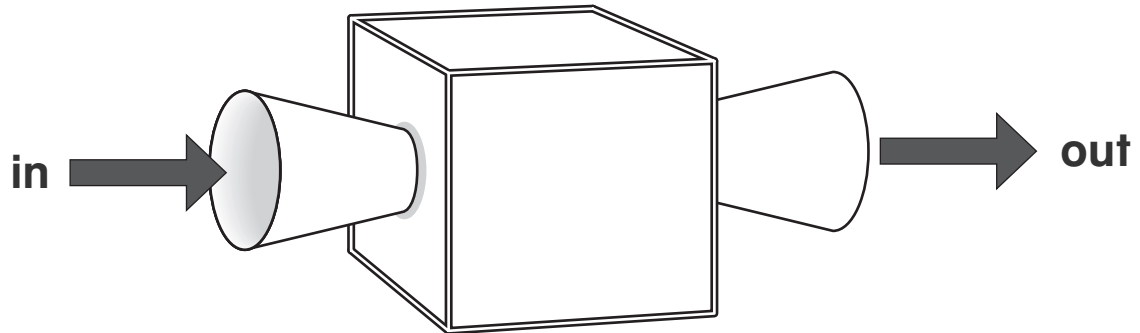
in	9	4	10	14		12	8
out	5	0	6		2		

Using Two Rule Machines

Find a rule. Complete the table.

1.

in → double → add 3 → out
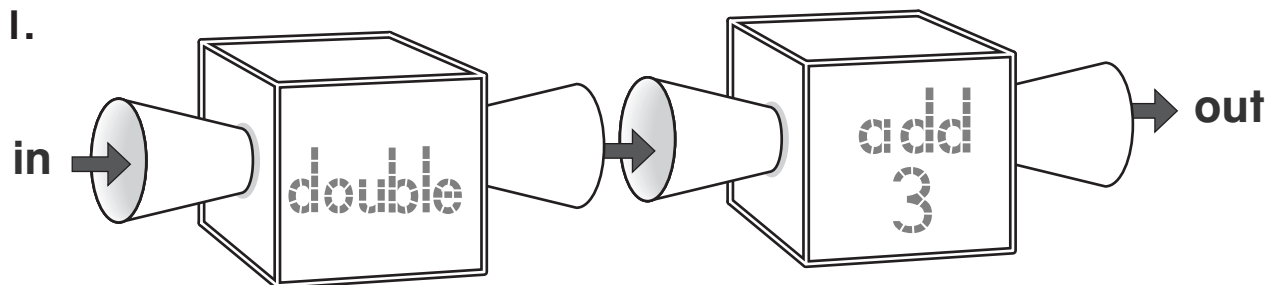
in	9	2	6	5	1	3	
out	21	7	15				11

2.

in → → → out
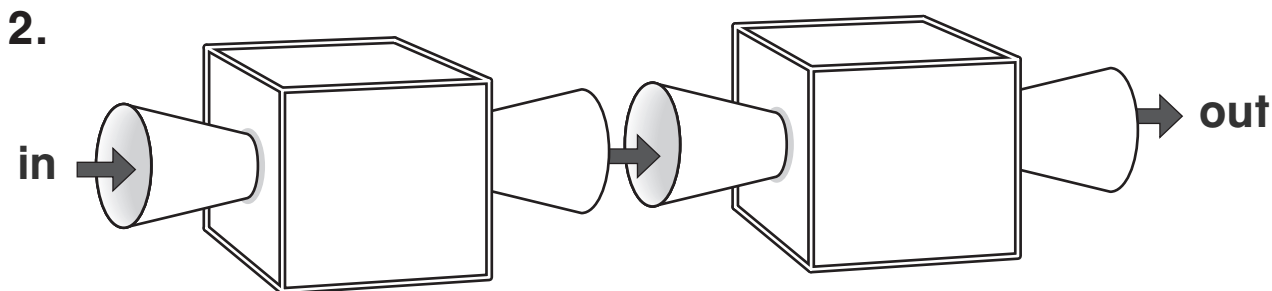
in	10	5	9	6	2	4	
out	11	6	10				9

Making Fact Families

Draw a picture. What is the fact family?

1. James has 6 marbles.
2 are black.
The rest are white.

$$2 + 4 = 6$$

$$\_\_ + \_\_ = \_\_$$

$$6 - \_\_ = 2$$

$$6 - \_\_ = \_\_$$

2. There are 7 cups.
5 are filled with milk.
The rest are filled with juice.

$$\_\_ + \_\_ = \_\_$$

$$\_\_ + \_\_ = \_\_$$

$$\_\_ - \_\_ = \_\_$$

$$\_\_ - \_\_ = \_\_$$

3. Lynn has 8 balls.
4 of them have stripes.
The rest have spots.

$$\_\_ + \_\_ = \_\_$$

$$\_\_ + \_\_ = \_\_$$

$$\_\_ - \_\_ = \_\_$$

$$\_\_ - \_\_ = \_\_$$

Fact Families with Stair-Step Numbers

Choose two Stair-Step Numbers to make a square.

| 1 | 3 | 6 | 10 | 15 |
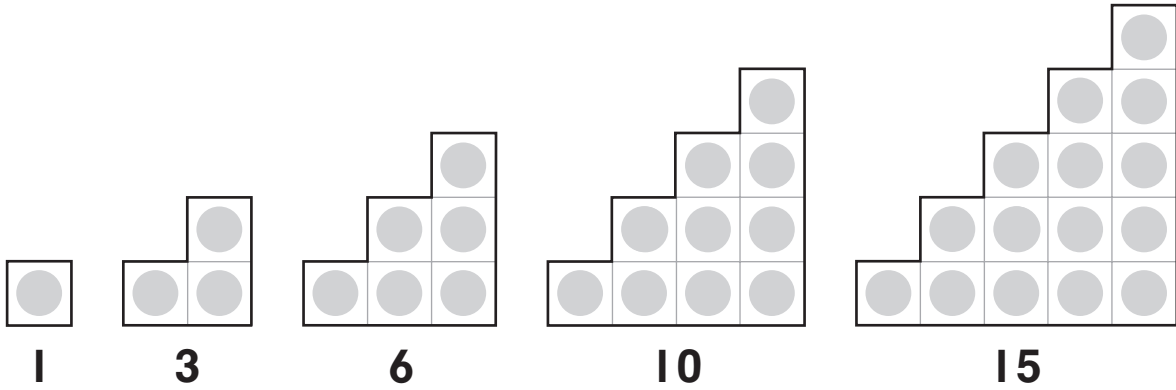
Write the fact family.

1.

$$1 + 3 = 4$$
$$3 + 1 = 4$$
$$4 - 1 = 3$$
$$\_\_ - \_\_ = \_\_$$

2.

$$\_\_ + \_\_ = \_\_$$
$$\_\_ + \_\_ = \_\_$$
$$\_\_ - \_\_ = \_\_$$
$$\_\_ - \_\_ = \_\_$$

3.

$$\_\_ + \_\_ = \_\_$$
$$\_\_ + \_\_ = \_\_$$
$$\_\_ - \_\_ = \_\_$$
$$\_\_ - \_\_ = \_\_$$

4.

$$\_\_ + \_\_ = \_\_$$
$$\_\_ + \_\_ = \_\_$$
$$\_\_ - \_\_ = \_\_$$
$$\_\_ - \_\_ = \_\_$$

Writing Stories for Fact Families

What is missing?
Write a story to match the fact family.

1.

$4 + 3 = 7$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$7 - \underline{\quad} = 4$

$7 - \underline{\quad} = \underline{\quad}$

I have __7__ fish.

__4__ of them are blue.

_____ are red.

2.

$5 + \underline{\quad} = 9$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$9 - \underline{\quad} = 5$

$9 - \underline{\quad} = \underline{\quad}$

_____

_____

_____

_____

3.

$3 + \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$10 - \underline{\quad} = 3$

$10 - \underline{\quad} = \underline{\quad}$

_____

_____

_____

_____

Writing Stories for Two-Sentence Fact Families

**Write a two-sentence fact family.
Then write a story to match.**

1.

$\langle 7 \rangle + \langle 7 \rangle = \langle 14 \rangle$

$\langle \; \rangle - \langle \; \rangle = \langle \; \rangle$

I have _____14_____ marbles.

_____Half_____ of them are black.

The other _____7_____ are white.

2.

$\triangle 9 + \triangle = \square$

$\square - \triangle = \triangle$

_____

_____

_____

_____

3.

$\bigcirc + \bigcirc = \boxed{12}$

$\boxed{12} - \bigcirc = \bigcirc$

_____

_____

_____

_____