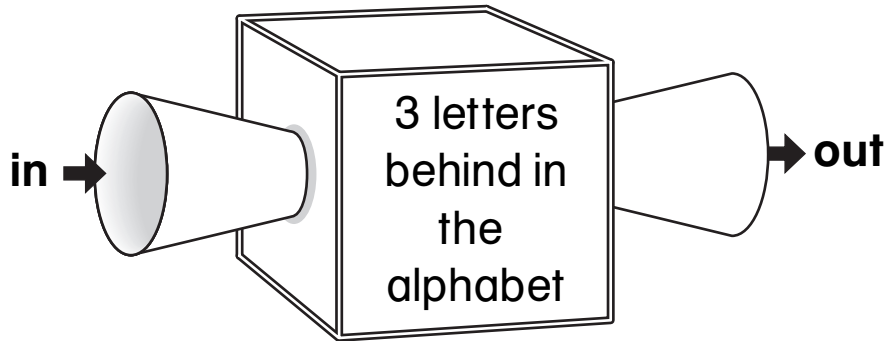


Using Rules to Solve Riddles

Use the rule to solve each riddle.

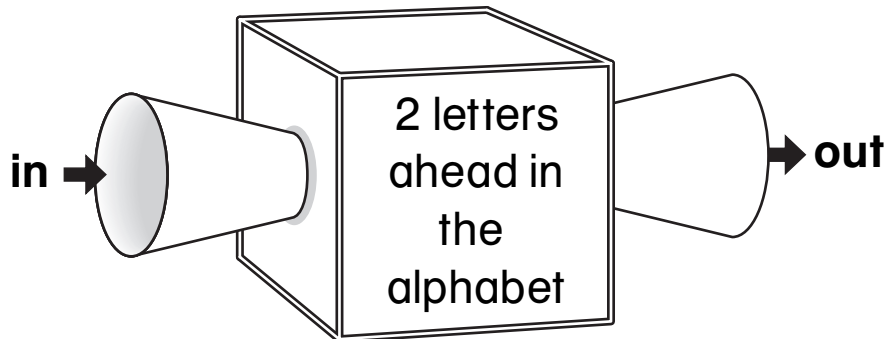
1.



What has no beginning, no end, and nothing in the middle?

D G R X J K Q X W

2.

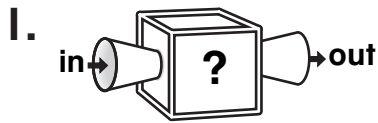


What is full of holes yet can still hold water?

Q N M L E C

Sorting Rules

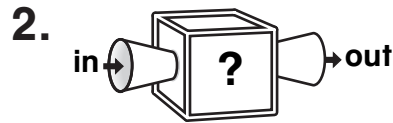
What is missing? What could the rule be?



in	out
24	yes
57	no
26	no
12	
19	
67	
	yes

The rule could be

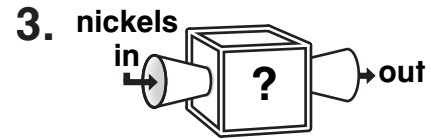
_____.



in	out
41	no
72	yes
93	no
88	
65	
46	
	yes

The rule could be

_____.



number of nickels	out
3	no
9	yes
5	yes
1	
7	
4	
	yes

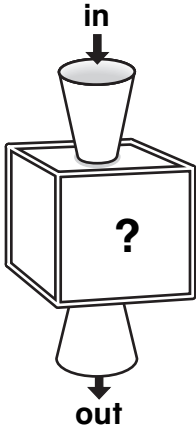
The rule could be

_____.

Undoing Rules

Write the missing numbers and the rule.
How can you undo the rule?

1.

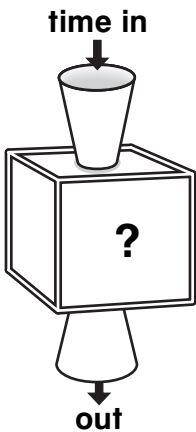


in	15	45	65	40	80	
out	30	60	80			45

The rule is _____.

To undo the rule, _____.

2.



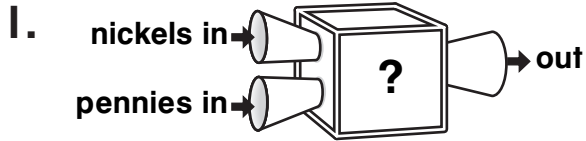
The rule is _____.

To undo the rule, _____.

in	1:00	3:30	5:00		8:00	12:00
out	2:00	4:30	6:00	11:00		

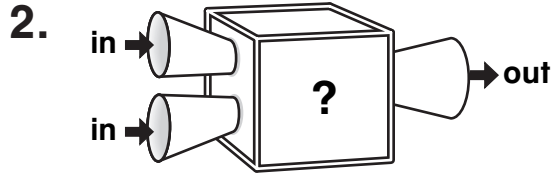
Rules with More Than One Input

Write the missing numbers.
What is the rule?



N	P	out
1	1	6¢
2	4	14¢
3	1	16¢
5	1	¢
4	3	¢
6		32¢
10	2	¢

The rule is _____



in	in	out
26	22	24
66	70	68
88	84	86
94		92
48	52	
40	44	
18		20

The rule is _____

Converting Units

Write *true* or *false*.

If it is false, write a true sentence.

1. There are 10 dimes in 1 dollar. _____






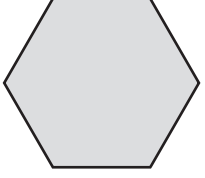
2. There are 8 quarts in 1 gallon. _____

3. There are 4 cups in 2 pints. _____

4. There are 8 nickels in 2 quarters. _____

5. There are 3 yards in 1 foot. _____

Buying Pattern Blocks

Pattern Block Prices					
tan	green	blue	orange	red	yellow
					
1¢	2¢	3¢	4¢	5¢	6¢


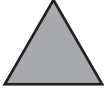



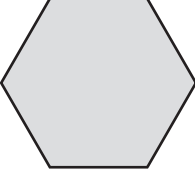
Use the Pattern Block Prices list.

1. Vicki bought 4 blue blocks. Tim bought 1 tan block and 2 yellow blocks. Who spent more money? How much more?

2. Madeline has 11¢. She wants to buy 2 blocks that are the same. Which color block can Madeline NOT buy? Why not?

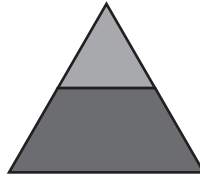
3. Gary bought 3 more tan blocks than yellow blocks. He bought twice as many tan blocks as blue blocks. He bought 1 yellow block. How much money did Gary spend?

Creating Figures

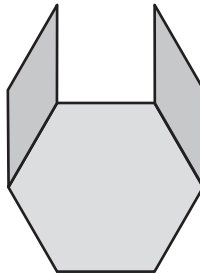
Pattern Block Prices					
tan	green	blue	orange	red	yellow
					
1¢	2¢	3¢	4¢	5¢	6¢

Draw another figure for each description.

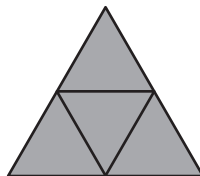
1. 2 of these cost 14¢.



2. 3 of these cost 24¢.



3. 2 of these cost 16¢.



Patterns with Skip-Counting

What numbers are missing?

1	2	3	4	5	6	7	8	9	10
11		13	14	15	16	17	18	19	20
21	22	23	24	25	26	27		29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44		46	47		49	50
51	52	53	54	55		57	58	59	60
61	62		64	65	66	67	68	69	70

1. I start at 0. I make _____ jumps of 4 or
_____ jumps of 3 to get to 12.

2. I start at 0. I make _____ jumps of 7 or
_____ jumps of 4 to get to _____.

3. I start at 0. I make _____ jumps of 9 or
_____ jumps of 5 to get to _____.

Making Matching Trains

Use Cuisenaire® Rods to build matching trains.

Write the missing numbers.

1.

Light Green	4	8			20	40
Purple	3	6	9	12		

2.

Purple	5		15	20	25	
Yellow		8				40

3.

Red				24	30	36
Dark Green	2	4	6			

4.

Blue				21	28
Black		9	18		