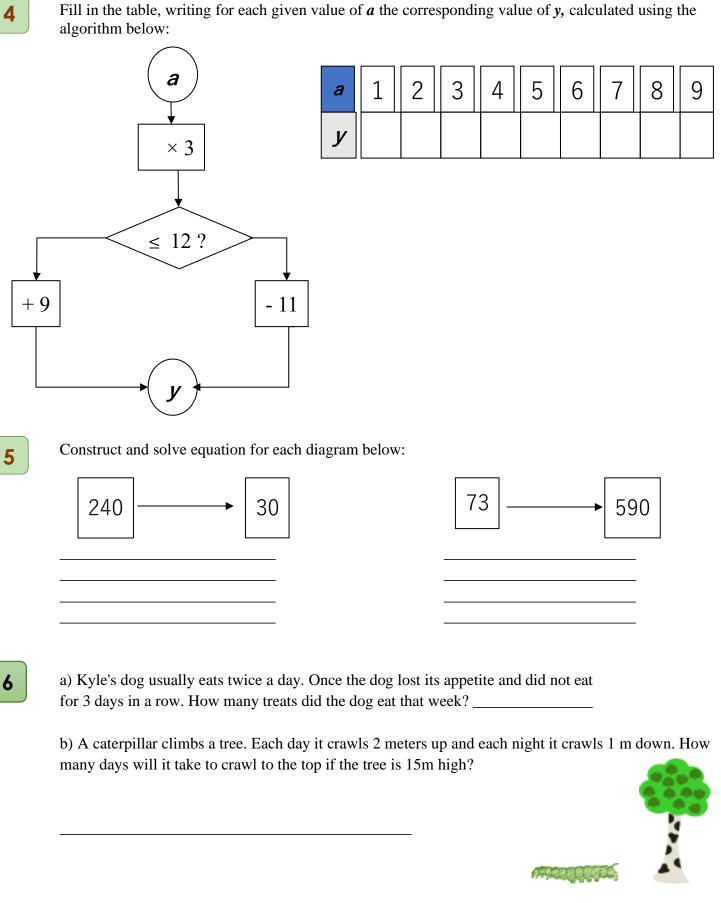
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## HW 18

## Multiplication by 10 and 100. Symmetry

4



## HW 18

7

8

9

## Multiplication by 10 and 100. Symmetry

Look at the table showing how to add numbers from 1 to 3. Cut out the table and fold it over the dotted line. Notice that the blue squares match up and so do the orange squares. Notice that the squares that match up have the same numbers in them. We say that the squares that match up when you fold along the line are "mirror images" of each other.

Explain why the numbers in the orange squares are equal.

+	1	2	3
1	2	3	4
2	3	4	5
3	4	5	6

The table below shows how to add numbers from 1 to 9. Two squares are shaded blue and two are green.

**Q:** Are the blue squares mirror images (diagonal colored yellow is a "mirror") of each other? Explain why?

**Q:** Are the green squares mirror images of each other? Explain why the numbers in the green squares are equal.

Find at least 5 more mirror image squares and shade those pairs with the same color. Why are the mirror image numbers always equal? What is the property of addition did you use?

			-						
+	1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9	10
2	3	4	5	6	7	8	9	10	11
3	4	5	6	7	8	9	10	11	12
4	5	6	7	8	9	10	11	12	13
5	6	7	8	9	10	11	12	13	14
6	7	8	9	10	11	12	13	14	15
7	8	9	10	11	12	13	14	15	16
8	9	10	11	12	13	14	15	16	17
9	10	11	12	13	14	15	16	17	18

Daniel has a few boxes with pencils. In each box there are either 3 or 5 pencils.

All boxes are closed and he cannot open them. Answer each question by writing the expression how he can do it.

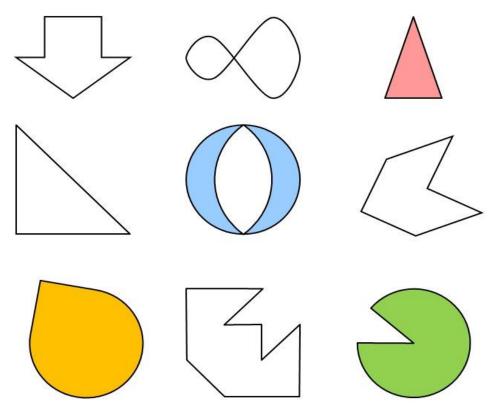
a) Can he take exactly 29 pencils without opening any boxes?

b) Can he take 14 pencils without opening any boxes?

c) Can he take 31 pencils without opening any boxes?

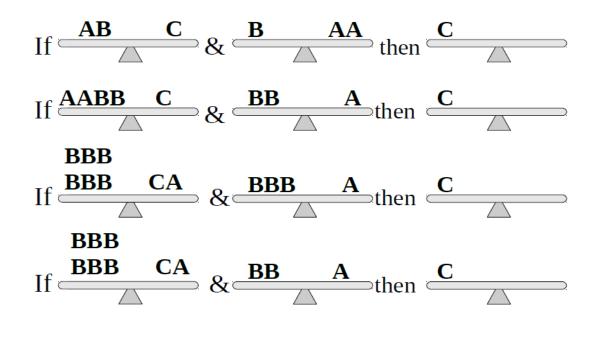
10

Each shape below has a line of symmetry. Draw a line of symmetry for each shape. Is there any shape with more than one line of symmetry? Circle the shape.



11

Write only A's to balance each scale:



	HW 18Multiplication by 10 and 100. Symmetry																												
12	Practicing Kangaroo: 1. There are 12 books on a shelf and four children in a room. How many books will be left on the shelf if each child takes one book?																												
	(A) 1	2		(B)	8			(C)	4			(D	) 2			(	(E) (	)				No.			S	TICK			
	<ul> <li>2. Kasia has 3 brothers and 3 sisters. How many brothers and how many sisters does her brother Mike have?</li> <li>(A) 3 brothers and 3 sisters (B) 3 brothers and 4 sisters (C) 2 brothers and 3 sisters (D) 3 brothers and 2 sisters (E) 2 brothers and 4 sisters</li> </ul>																												
	3. Ana has one coin of 5 centsHow many different values ca(A) 4(B) 7							an she make with these coins						s?															
13	Usin	g any a)			aper t squa			dra	w t	he	rect	angl	es v				(ar nit s				:0:								
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