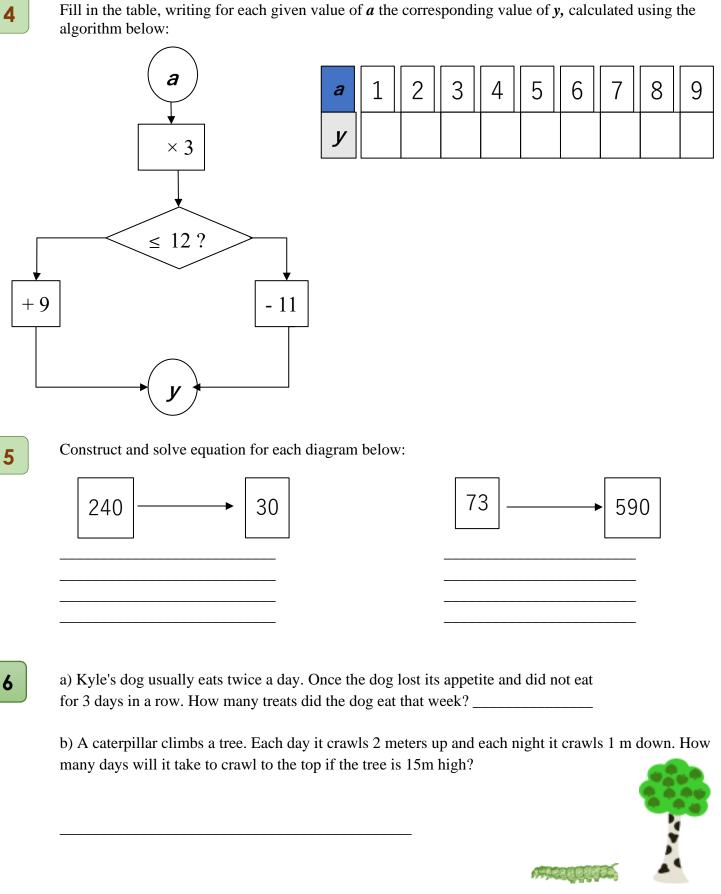
	er the order of operatio		values of each exp	ression (use the graph	h paper
write	down the expressions!) $215 - (38 + 169) = _$				
	500 - (239 + 85) + 45				
	(357 + 194) - 263 =				
	(304 - 26) - (72 + 168	3) =			
	b) What number shou	Ild be decreased	by 128 to get 800	?	
		number 928 shou	ild be decreased to	 9 get 800? 	
	c) By how much the r				
Calcul	late:			_	
Calcu	late: $54 \times 10 - 54 \times 0 =$		+ 4 × 10 =	- 0 × 100 = 0 × 0 + 1 × 1=	
Calcu	late:	0 + 0 =	$+ 4 \times 10 =$ + 1 × 100 =	$ \begin{array}{c} 0 \times 100 = \\ 0 \times 0 + 1 \times 1 = \\ 10 \times 39 = \end{array} $	
Calcu	late: $54 \times 10 - 54 \times 0 =$ 854 - 853 =	0 + 0 =		$0 \times 0 + 1 \times 1 =$	
Calcu	late: $54 \times 10 - 54 \times 0 =$ 854 - 853 =	0 + 0 = 200 × 0 15 × 10	$+ 1 \times 100 =$ + 15 ×100 =	$0 \times 0 + 1 \times 1 =$	00 =

HW 18

Multiplication by 10 and 100. Symmetry



HW 18

7

8

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?

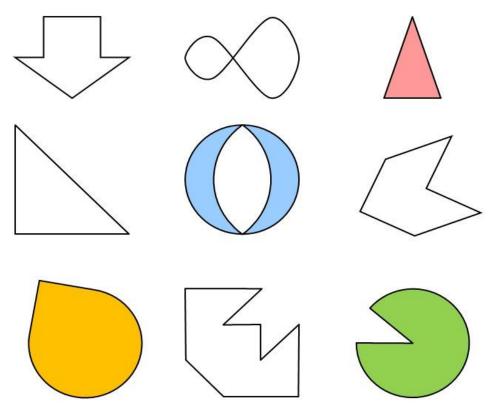
b) Can he take 14 pencils without opening any boxes?

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

9

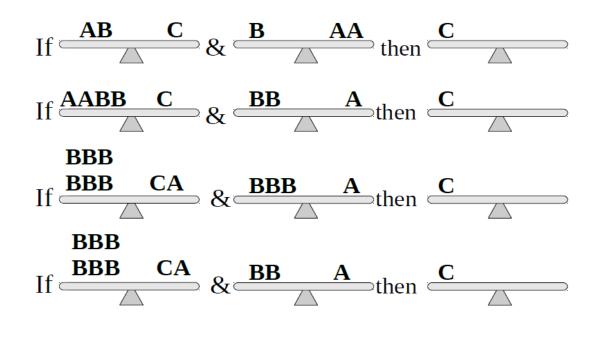
10

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 18		Multiplication	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) 12	(B) 8	(C) 4	(D) 2	(E) 0				
	 2. Kasia has 3 brothers and 3 sisters. How many brothers and how many sisters does her brother Mike have? (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 								
		one coin of 5 ce different values (B)	one coin of 50 cents. (E) 20						
13		grid paper belo 12-unit squares	ow, draw the rec	e	A (area) equal to: -unit squares				
	a) b) Calculate a perimeter (P) for each rectangle. What did you notice? a) b) b)								
	5								

