5	.7	RA	ТΖ	IO	T	48	LES
	-	1 3/		$\cdot$		-	

	0.1	\ (	
ESSENTIAL QU	ESTION: Haw Gran	in find 2 ratio	c 2
that	geschipt the	you find 2 rationship?	

Alan has bag of marbles that has 6 blue marble and 5 red marbles. What is the ratio of red marbles to blue marbles?  $\Rightarrow \uparrow \Rightarrow \bigcirc$ 

Sally also has a bag of marbles that has 10 red marbles and 12 blue marbles. What is the ratio of red marbles to blue marbles?  $\downarrow \Diamond \uparrow \Diamond \downarrow \Diamond$ 

sie and 10:12 are Equivalent ratios

60 = 60

If you think of equivalent ratios as equivalent fractions the cross products are equal.

You can find and organize equivalent ratios in a ratio table.

## **EXAMPLE 1 COMPLETING RATIO TABLES**

Find the missing value(s) in each ratio table. Then write the equivalent ratios.

	47	7	30
Pens	1	2	3
Pencils	3	6	9

		+ 3	
1:3	5:8	3;0	1

++	+4
----	----

Plantains	4	8	12
Bananas	3	6	9

4:3	4; 6	15;	9
	` `	J	

Dogs	4	8	24
Cats	6	12	36

X5 X3

4:6 8:12 24:36

X2 x4

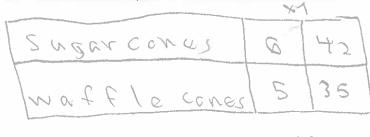
Euros	5	10	40	
Dollars	4	8	32	

XS XH

5:4 10:8 40:32

## **EXAMPLE 2 USING A RATIO TABLE**

1)At an ice cream shop the ratio of sugar cones sold to waffle cones sold is 6 : 5. If there are 42 sugar cones sold, how many waffles cones would be sold?



35 waffle cones more sold,

X1

2)At summer camp the ratio of boys to girls was 5 : 4. If there were 40 boys, how many girls were there?

Boys 5 40 Girls 4 32

There were camp.