Center #1 – Write the ratio and explain what the ratio means.

1. butterflies: caterpillars

2. saxophones: trumpets



The ratio of boys to girls in a class is 2:5. If there are 42 students in the class, how many are boys?

Center #2 - Write a unit rate for the situation

1. 288 miles on 9 gallons

2. 308 miles in 1.5 hours

3.  $6\frac{2}{5}$  revolutions in  $2\frac{2}{3}$  seconds

Center #3 – Solve the proportion 1)  $\frac{2}{3} = \frac{x}{21}$ 2)  $\frac{5}{12} = \frac{y}{15}$ 3)  $\frac{8}{20} = \frac{6}{w+2}$ 

4) The ratio of adults to children is 5 to 3. If there are 90 adults, how many children are there?

5) Fred sells 46 boxes in 4 hours, Jeff sells 57 boxes in 5 hours. Who sold more per hour?

## Center #4

Which one is the better buy? 5 ounce can of tuna for \$0.90 12 ounce can of tuna for \$2.40 Which one contains more sugar per ounce? 24 grams of sugar in 6 fluid ounces 15 grams of sugar in 4 fluid ounces

## Center #5 – Tell whether the ratios form a proportion

11	4 2	32 12	4 58
1)	$\frac{4}{9}, \frac{2}{3}$	2) $\frac{32}{40}, \frac{12}{15}$	3) $\frac{4}{5}, \frac{58}{72.5}$

Are x and y in a proportional relationship? How do you know?			? X	Y	
				4	3
× 1	3	6	8	8	7
A 1	5	0		12	11
<b>y</b> 4	12	24	32	16	15

Center #6 – Solve the proportion		
1) $\frac{7}{n} = \frac{42}{48}$	2) $\frac{3}{11} = \frac{27}{z}$	3) $\frac{x}{4} = \frac{2}{5}$

4) If four speeches last 10 hours, how many hours will six speeches last?

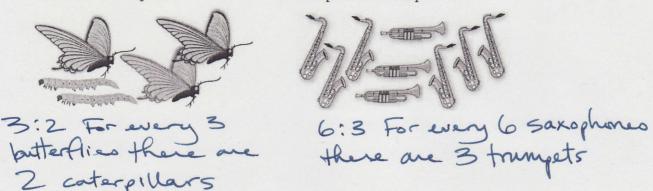
5) You mix  $\frac{1}{2}$  gallon of yellow paint for every 1 gallon of blue paint to make 12 gallons of green paint. How much yellow and blue paint did you use? Center #1 – Write the ratio and explain what the ratio means.

1. butterflies: caterpillars

2. saxophones: trumpets

water GACC on S/14 Ratios

p242 #1-6 del, 17,18 pour #3-6 del, 91,10,16,18



The ratio of boys to girls in a class is 2:5. If there are 42 students in the class, how many are boys?

2:5 -> 7 total groups 42:7= 6 in each group 2 groups of boys × 6 = 12 boys

Center #2 – Write a unit rate for the situation

## 3. $6\frac{2}{5}$ revolutions in $2\frac{2}{3}$ seconds 1. 288 miles on 9 gallons 2. 308 miles in 1.5 hours 63-23 308-1.5 288 34:00 205.3 mi/hr 432. 3 = 12 = 2 = revolutions 205 ± miles in Center #3 - Solve the proportion $\frac{2}{3} = \frac{x}{21}$ 3) $\frac{8}{20}$ $\frac{76}{w+2}$ 2) $\frac{5}{12}$ $\frac{y}{15}$ 1) 8(W+2) = 120 8W+16=120 76-10 X=14 y= 6.25 W=104 N=13 4) The ratio of adults to children is 5 to 3. If there 5) Fred sells 46 boxes in 4 hours, Jeff sells 57 are 90 adults, how many children are there? boxes in 5 hours. Who sold more per hour?

Fred

90:5= 18 in each group 46-14 = (1.5 boxes/h 57:5 = 11.4 boxes/ 18×3 = 54 children

## Center #4

Which one is the better buy? 5 ounce can of tuna for \$0.90 12 ounce can of tuna for \$2.40

0.90÷5=\*0.18/02

2.40:12= \$0.20/02

Sounce is better buy

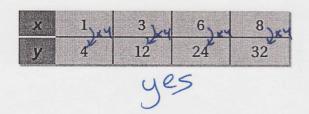
Which one contains more sugar per ounce? 24 grams of sugar in 6 fluid ounces 15 grams of sugar in 4 fluid ounces

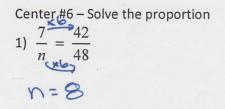
24:6 = 4 grams/ounce 15:4 = 3.75 grams/ounce 24 grams of sugar in 6 02 has more sugar

Center #5 - Tell whether the ratios form a proportion



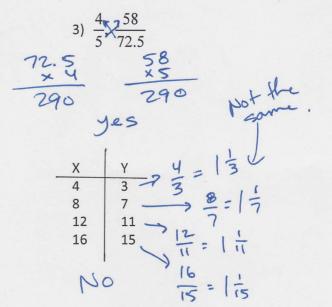
Are x and y in a proportional relationship? How do you know?





,	19			
3	$\sim_2$	7		
11	= -	Z		
C	)	~	-	99
×	9	t	-	99

2)



If  $2 \times 3 = 6$ , 3)  $\frac{x}{4} \times \frac{2}{5}$   $6 \div 2 = 3.50$   $5 \times = 8$  $X = \frac{8}{5} = \frac{3}{5}$ 

4) If four speeches last 10 hours, how many hours will six speeches last?

10:4 = 2.5 hrs per speech 2.5 × 6 15.0 15 hours

5) You mix  $\frac{1}{2}$  gallon of yellow paint for every 1 gallon of blue paint to make 12 gallons of green paint. How much yellow and blue paint did you use?  $\frac{1}{2} + 1 = 1\frac{1}{2} \implies 12 \div 1\frac{1}{2} = 8$ 

yellow -> 8×2 = 4 gallons blue -> 8×1 = 8 gallons