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) $\frac{1}{1}$

$$\frac{5}{12} = \frac{y}{15}$$

3)
$$\frac{8}{20} = \frac{6}{w}$$

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

3) $\frac{4}{5}, \frac{58}{72.5}$

Center #5 – Tell whether the ratios form a proportion 1) $\frac{4}{9}$, $\frac{2}{3}$ 2) $\frac{32}{40}$, $\frac{12}{15}$

Are x ar	nd y in a p	Х	Y				
Ale A di	ia y in a p	4	3				
NOTICE STATE				1		8	7
X	1. 1. S.	3	6		8	12	11
V	4	12	24	3	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 3:2 For every 3 butter flies there are 2 caterpillars 2. saxophones: trumpets 2. saxophones: trumpets 6:3 For every 6 saxophones here are 3 frumpets.

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 brys x 6 = 12 boys

Center #2 - Write a unit rate for the situation

1. 288 miles on 9 gallons 2. 308 miles in 1.5 hours 308-1.5 32 mi 205.3 miles hr Igal 32 miles for 205 ± miles in 1 gallor Thour Center #3 - Solve the proportion 1) $\frac{2}{3} = \frac{x}{21}$ 2) $\frac{5}{12} \neq \frac{y}{15}$ (IX) 12y = 75X=14 y=6.25

3. $6\frac{2}{5}$ revolutions in $2\frac{2}{3}$ seconds 63:23 32.1. 432.3= 12=2= revolutions 5.8= 5=2= in I second 3) $\frac{8}{20} = \frac{6}{w}$

1=15

hatt

6 INCC

5

PI 1C

Charlos

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

90:5=18 in each group

18×3=54 children

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

46=4 = 11.5 boxes/hr 57-5= 11.4 boxes/hr

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

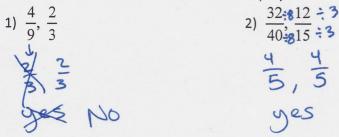
2.40:12= 10.20/02

Sounce is better buy

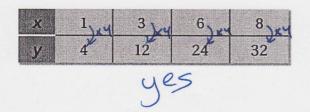
Which one contains more sugar per ounce? 24 grams of sugar in 6 fluid ounces 15 grams of sugar in 4 fluid ounces

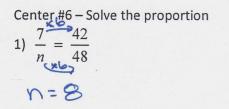
24:6 = 4 grams/ounce 15: 4 = 3.75 grams/ounce 24 grams of sugar in 6 82 has more sugar

Center #5 - Tell whether the ratios form a proportion



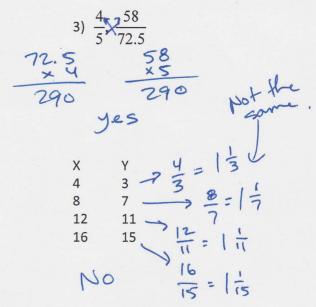
Are x and y in a proportional relationship? How do you know?





	×	7		
	3	27		
)	$\frac{1}{11} =$			
	11	>		90
	xq	72	ĩ	17

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 <u>x 6</u> 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? $\frac{1}{2} + 1 = 1\frac{1}{2} \rightarrow 12 \div 1\frac{1}{2} = 8$

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