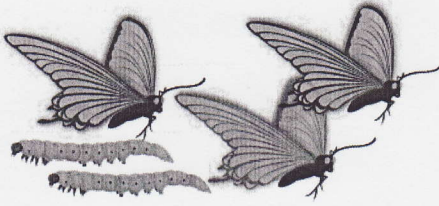
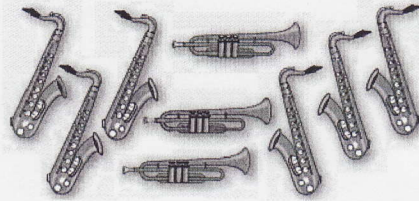


Center #1 – Write the ratio and explain what the ratio means.

1. butterflies : caterpillars



2. saxophones : trumpets



Find the missing values in the ratio table. Then write the equivalent ratios.

3.

Levers	6		18
Pulleys	3	6	

4.

Cars	3	6	
Trucks	4		24

Center #2 – Write a unit rate for the situation

1. 3600 stitches in 3 minutes

2. 308 miles in 5 hours

Center #3

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 #4 – Write the fraction or mixed number as a percent.

1.  $\frac{3}{5}$

2.  $\frac{43}{25}$

3.  $2\frac{21}{50}$

4. 80% of 55 is what number?

5. 125% of 80 is what number?

Center #5 – Write the percent as a fraction or mixed number in simplest form.

1. 12%

2. 188%

3. 0.8%

4. 30% of what number is 27?

5. 40% of what number is 56?

Center #6

There are red marbles and blue marbles in a bag. 70% of the marbles are red and there are 21 of them. How many blue marbles are in the bag?

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

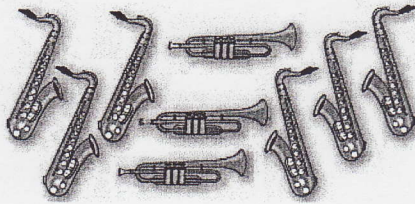
Center #1 – Write the ratio and explain what the ratio means.

1. butterflies : caterpillars



3:2  
For every 3 butterflies there are 2 caterpillars

2. saxophones : trumpets



6:3 For every 6 saxophones there are 3 trumpets

Find the missing values in the ratio table. Then write the equivalent ratios.

3.

Levers	6	12	18
Pulleys	3	6	9

6:3, 12:6, 18:9

4.

Cars	3	6	18
Trucks	4	8	24

3:4, 6:8, 18:24

Center #2 – Write a unit rate for the situation

1. 3600 stitches in 3 minutes

$$\frac{3600}{3 \text{ min}} = \frac{1200 \text{ stitches}}{1 \text{ min}}$$

2. 308 miles in 5 hours

$$\frac{308 \text{ mi.}}{5 \text{ hrs}} = \frac{61.6 \text{ mi}}{1 \text{ hr}}$$

Center #3

Which one is the better buy?

5 ounce can of tuna for \$0.90

12 ounce can of tuna for \$2.40

$$.90 \div 5 = \$0.18 \text{ each}$$

$$2.40 \div 12 = \$0.20 \text{ each}$$

5 ounce can is the 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

$$24 \div 6 = 4 \text{ grams per ounce}$$

$$15 \div 4 = 3.75 \text{ grams per ounce}$$

24 grams in 6 ounces has more sugar per ounce

Math 6 ch 5 p242 #1-14 add, 17-20 add

Center #4 - Write the fraction or mixed number as a percent.

1.  $\frac{3}{5} = \frac{60}{100} = 60\%$   
 2.  $\frac{43 \times 4}{25 \times 4} = \frac{172}{100} = 172\%$   
 3.  $2\frac{21}{50} \times 2 = 2\frac{42}{100} = 242\%$

4. 80% of 55 is what number?

$\frac{80}{100} \times 55$   
 $\frac{4}{5} \times \frac{55}{1} = 44$

5. 125% of 80 is what number?

$\frac{125}{100} \times 80$  or  $100\% \text{ of } 80 = 80$   
 $25\% \text{ of } 80$   
 $\frac{1}{4} \times 80 = 20$   
 $80 + 20 = 100$

Center #5 - Write the percent as a fraction or mixed number in simplest form.

1. 12%  $\frac{12}{100} = \frac{6}{50} = \frac{3}{25}$   
 2. 188%  $\frac{188}{100} = \frac{188}{100} = 1\frac{22}{25}$   
 3. 0.8%  $\frac{0.8 \times 10}{100 \times 10} = \frac{8}{1000} = \frac{1}{125}$

4. 30% of what number is 27?

$\frac{30}{100} \times n = 27$   
 $\frac{3}{10} \times n = 27$   
 $27 \div \frac{3}{10}$   
 $9 \cancel{27} \cdot \frac{10}{\cancel{3}} = \boxed{90}$

5. 40% of what number is 56?

$\frac{40}{100} \times n = 56$   
 $\frac{2}{5} \times n = 56$   
 $56 \div \frac{2}{5}$   
 $28 \cancel{56} \cdot \frac{5}{\cancel{2}} = \boxed{140}$

Center #6

There are red marbles and blue marbles in a bag. 70% of the marbles are red and there are 21 of them. How many blue marbles are in the bag?

70% of the marbles are red

$\frac{70}{100} \times m = 21$   
 $\frac{7}{10} \times m = 21$

$21 \div \frac{7}{10}$

$3 \cancel{21} \cdot \frac{10}{\cancel{7}} = 30 \text{ marbles}$   
 $30 - 21 = 9 \text{ blue marbles}$

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

$2:5 \rightarrow 7 \text{ total groups}$

$42 \div 7 = 6 \text{ in each group}$

$6 \times 2 = 12 \text{ boys}$