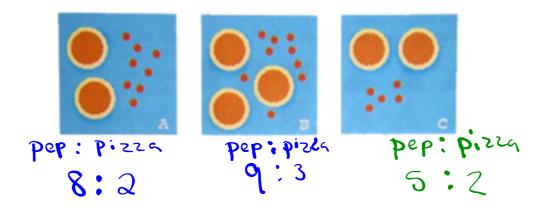
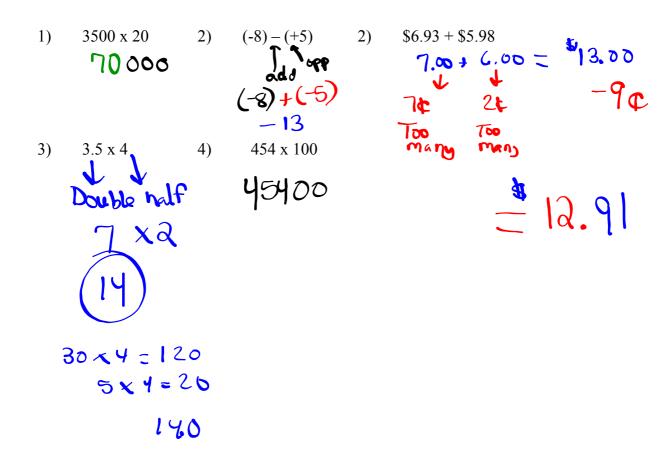


## **Grade 8 Warm Up Mar. 23, 2017**

Write the ratio of pepperoni pieces to pizza for each picture?



### **Mental Math**



Go over homework, pg. 266 # 1,2, 4-15

1. A part to a whole ratio compares part of a group to a whole group, while a part to a part ratio compare one group to another group.

Example Part to a whole girls to all students
Part to a part girls to boys

2. 4:35 can be written as a percent by changing the equivalent fraction to a decimal, and then to the equivalent percent

4/35 = 0.114 or 11.4%

$$\frac{9}{20} = \frac{95}{100} = \frac{95}{100}$$

$$\frac{12}{15} = \frac{4}{5} = \frac{80}{100} \quad 80\%$$

$$4 \frac{3}{8} = 0.125$$

$$12.5\%$$

d) 
$$5:6$$
 $\frac{5}{6} = 0.833$ 
 $83.3\%$ 

\$ :013:5 -> red:green b) 7:5 -> blue: green \* 0) 5:15 -7 green: all di 3:5:7 -> red: green:blue \*e) 3:12 -> red to green and blue

old orange to all

b) white to all 1:15

b) white to all

1:15

c) yellow to pink

7:4

7to 4

di yellow: white: orange 7 to 1 to 3

- 8. (a) T- shirts to all garments 5 : 7
  - (b)  $\frac{5}{7}$  = 0.714 or 71.4%
- 9 (a) (i) Green counter to red counters 9 to 7
  - (ii) girls to boys 8 to 3
  - (iii) Flour to sugar to milk 3 to 1 to 2
  - (b) part to whole
    - (i) green to all red to all 9 to 16 7 to 16
    - (ii) girls to students boys to students 8 to 11 3 to 11
    - (iii) flour to ingredients sugar to ingredients milk to ingredients 3 to 6 1 to 6 2 to 6

10. (a) boys to girls

(b) girls to boys

14:12

(c) boys to students

Percent

0.462 or 46.2%

(d) 2 boys leave

new ratio

boys to students

percent

11. 8 red, 5 green, 2 orange, 3 purple, 1 blue and 6 yellow

(a) (i) red: purple

(ii) green : blue

(iii) purple : blue: green

(iv) orange and yellow: total candies

8.25

(b) 3 red, 2 green and 4 yellow were eaten

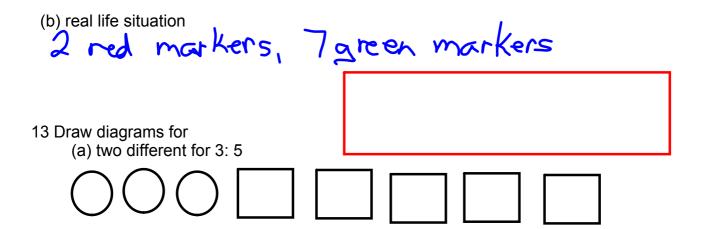
50,39,20,3p

(ii) green : blue

(iii) purple : blue: green

(iv) orange and yellow: total candies

12(a)	expla	in 2/7	as	a r	atic
2	612	L x	4		



(b) 7:1

(c) 5:2:4

(d)

14. (a) total amount of ingrediants

(b) oranges to apples

mayonnaise to macaroni

2:3

apples to mayonnaise to celery

2:2:1

(c) apples and oranges to total ingredients fraction

- 5 0,455 11 0,455 45.5%
- (d) with 2 oranges instead of 3

oranges to apples

mayonnaise to macaroni

apples to mayonnaise to celery

2:2:1

(c) apples and oranges to total ingredients fraction

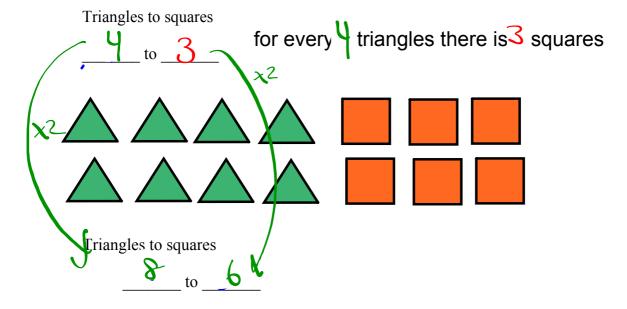
percent

### **Equivalent Ratios**

How do you find equivalent fractions?



What is the ratio of triangles to squares?



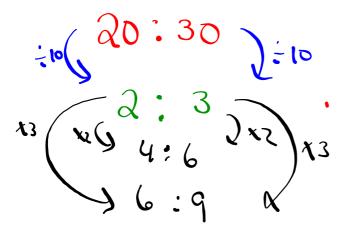
4 to 3 = 8 to 6. These are called equivalent ratios. Equivalent ratios are equal.

To find equivalent fractions, multiply (or divide) all terms by the same number.

You can find **equivalent ratios** by dividing. Divide the terms by the same number.

	:5				
1st Term	20 10	4 2 2			
2nd Term	30 - 15	6 7 3			
:5					

Three equivalent ratios of 20:30 are:



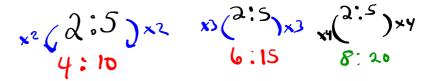
To write a ratio in its simplest form, divide the terms by their GCF.

$$\frac{21:14}{3:2}$$

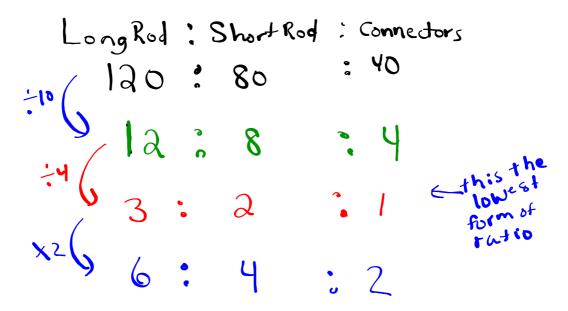
A ratio is in simplest form when its terms have no common factors.

#### Examples

1. Write 3 ratios equivalent to 2:5.



3. Construction kits come in different sizes. The regular kit contains 120 long rods, 80 short rods and 40 connectors. List 3 other kits that could be created with the same ratio of rods and connectors.



#### Examples

1. Write 3 ratios equivalent to 2:5.

2. Write 3 ratios equivalent to 36: 6.

3. Construction kits come in different sizes. The regular kit contains 120 long rods, 80 short rods and 40 connectors. List 3 other kits that could be created with the same ratio of rods and connectors.

# Hass/Homework

page 268 #14(a to d)

pg. 273-274 # 4a,5a, 6a, 8a,bc, 9(a,b,c,d), #10(a,b,c,)

(you do not need tables for 5-6)