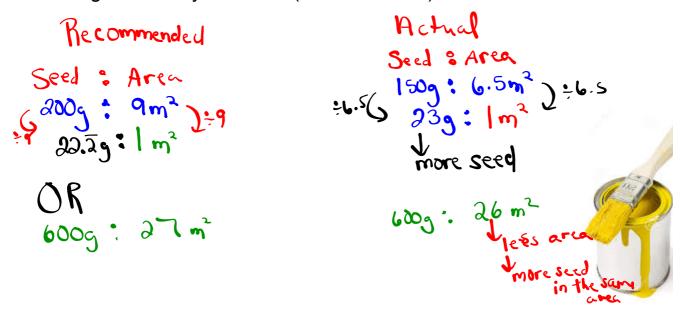


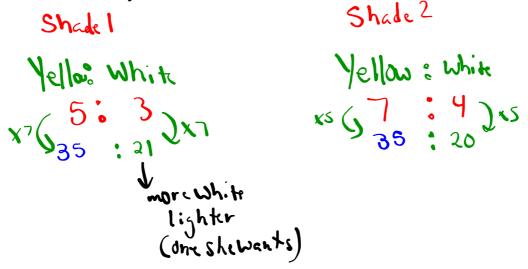
Warm Up Grade 8 March 22, 2018



1) The recommended seeding on a package of grass seed is 200 g per 9 m<sup>2</sup>. Carey spread 150 g over 6.5 m<sup>2</sup>. Is this more than, equal to, or less than the recommended seeding? How do you know? (Make a term 1)



2) A contractor brought 2 shades of yellow paint for his clients to see. Shade 1 is made by mixing 5 cans of yellow paint with 3 cans of white paint. Shade 2 is made by mixing 7 cans of yellow paint with 4 cans of white paint. The clients want the lighter shade. Which shade should they choose?



Pg 285 10. Alison

6 of 13 shots 54 05 117

6 - 0.46 13 or 46% of shots

Wodhu played better.

Nadhu 5 of 9 shots 65 8 117

5 = 0.555. or 56 % of shots

2 pizzafor3 posple 3 pizza / person 0.666..

The Colgary beam

percent of a pizza each person received.

Alber ta 3 pi 22asfor 5 3/person

b 00.6

received more pizza per person

Recipe A has a stronger vinegar taste, they both have 450m/ of vinegar, but A has less oil. 13. Ms Arbuckte Mr. Albright Fiction: Non Fiction Fiction Fiction 1 Non Fict.

7: 5
4:3
40:30
Fiction
Fiction b) Ms Arbuckle  $\frac{30}{72} = 0.42$  or 42%Mr. Albright  $\frac{30}{70} = 0.43$  or 43%14. A conciwater B conciwater 2:1 b) A 6:3 6:4

then add one can of water to A to make the conc: water the same.

15. a)	red: yellow	b) red: yellow
A	4:12	1:3
B	3: 15	1:5
$\overline{C}$	2:3	1:1,5

- a) Shade C will have the most red
- d) Shade B will have the most yellow.

16. Cage A Cage B
White: Brown
5:6
7:5

Marcel says Bhas more brown, h > 1 and 13 < 12

He is correct, he campared brown to all.

17. Glider A Glider B 14:3 15:4 56:12 45:12

Glider A will more forward S6m for every 12m of altitude lost Glider B will more forward 45m for every 12m of altitude lost.

Glider A will cover the most hor zontal distance. 18. One box
Hockey: Basketball: All
H: B: All
3: 7
3: 2: 5
20: 15:35
21:14:35

pg. 291

4. (a) t: 
$$18 = 6:3$$

36:  $18$ 
 $t = 36$ 
 $t = 36$ 

(c) x:  $15 = 2:3$ 

(d)  $15 = 2:3$ 

(e) 6:  $c = 2:11$ 

6:  $33 = 2:11$ 

5. (a) 
$$5:t = 15:36$$

8  $5:12 = 15:36$ 
 $t = 12$ 

(c) 
$$120:70 = 12:k$$

(d)  $120:70 = 12:k$ 

(e)  $120:70 = 12:k$ 

(f)  $120:70 = 12:k$ 

$$⊗$$
(e) 27: 63 = p: 7  
27: 63 <  $\frac{3}{2}$ : 7  
 $⇔$  =  $\frac{3}{2}$ 

(b) 
$$v:60 = 3:10$$
 $18:60 = 3:10$ 
 $v=18$ 

(d) s:28 = 9:4

$$5=63$$
 (f) 39 : b = 3 : 2

(f) 
$$39 : b = 3 : 2$$

(b) 
$$45:72 = 5:n$$
  
 $45:72 = 5:8$   
 $n = 8$ 

(d) 
$$81:27 = 9:m$$
  
 $81:27 = 9:3$   
 $m = 3$ 

(f) 
$$8 : s = 64 : 80$$
  
 $8 : 10 = 64 : 80$   
 $5 = 10$ 

6. (a) 
$$1:6=a:54$$

$$(c) 2:15 = f:75$$

(e) 
$$3:7 = 30:p$$

7. (a) 
$$18: a = 14:21$$

(c) 
$$m: 18 = 18: 27$$

$$-18=6.9$$
 $m=12$ 

(e) 
$$6:8=j:44$$

(b) 
$$3:8 = e:40$$

(d) 
$$42:36=g:6$$

$$42:36:7$$
 (f)  $26:65=2:r$ 

(f) 
$$26:65=2:1$$

(b) 
$$35:b = 15:12$$

(d) 
$$88:33 = h:6$$

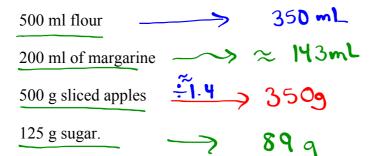
(f) 
$$15:42=20:w$$

$$15:42=20:\omega$$
 $5:14=20: 44$ 
 $44$ 
 $44$ 
 $44$ 
 $44$ 
 $44$ 



## **Solving Ratio Problems**

Have students work on Investigate pg. 287
Recipe for Apple pie that serves 6 people.



Toby only has 350 g of sliced apples.

How much of each of the ingredients does Toby need to make the pie?

How many people will Toby's pie serve? 4 people



## **Solving Ratio Problems**

Have students work on Investigate pg. 287

Recipe for Apple pie that serves 6 people.

11 1	· ^	<b>^</b> '
500 ml flour	710 50m	350m
200 ml of margarine	20m1	140m1
500 g sliced apples	509	350 q
125 g sugar.	12.5a	87, 5°a

Toby only has 350 g of sliced apples.

How much of each of the ingredients does Toby need to make the pie?

How many people will Toby's pie serve?

$$7= 35 = 350$$
10 50 500

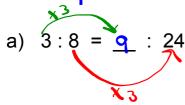
ONLY MAKES 70% OF BATCH 70% OF 6 = 4.2

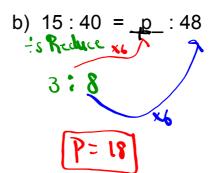
J

## When given a question to find the missing variable in a ratio:

- First see if you can multiply or divide to get a term in the second ratio.
- Reduce the given ratio, if possible, then recheck to see if you can multiply or divide.
- Finally, make the same term in each ratio equal to solve for the missing term.

## **Examples**





hint can you make the second term the same??



Worksheet 8 - Solving Ratios

Extra Practice 8 Solving Ratios.pdf