

Warm Up Grade 8 April 3, 2017

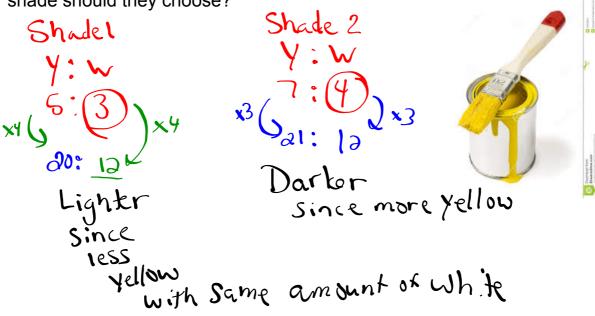


1) The recommended seeding on a package of grass seed is 200 g per 9 m<sup>2</sup>. Carey spread 150 g over 6.5 m<sup>2</sup>. Is this more than, equal to, or less than the recommended seeding? How do you know? (Make a term 1)

Packytase: Area 9 m<sup>2</sup> 2009: 9 m<sup>2</sup> 2009: 1 m<sup>2</sup> 2009: 27 m<sup>2</sup>

150g: 6.5m²):6.5 23.07g: 1m² Too much added 5in a 22.2<23.07

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?



6 - 0.46 13 or 46% of 5hot 5

Nodhu played better.

Nadhu 5,0+ 9 shots 65 of 117

5 = 0.555. or 56% of shots

2 pizza for 3 posple -3 pizza / person 2 pizza / person 0.666...

The Colgary team received more pizza per person

percent of a pizza each person received.

Alberta 3 pi 22as for 5 septe

3 / person 4:55 6 or 0.6 Recipe A has a stronger vinegar

taste, they both have 450m/ of vinegar, but A has less oil.

13. Ms Arbuckte Fiction: Non Fiction Fiction Fict.

7: 5
42: 30
Fiction

Fiction 1 Non Fict.

4: 3
Fiction

Fiction 20
Fiction

Mr. Albright

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.

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

16. Cage A Cage B
White: Brown
5:67:5

Marcel sous Bhas more brown, hyd and & < d

He is correct, he campared brown to all.

17. Glider A Glider B 14:3 15:4 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 last.

Glider A will cover the most horrzontal distance.

18. One box
Hockey: Basketball: All
H: B: All
3: 7
3: 2: 5
20: 15:35
21:14:35

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

$$\chi = /O$$
  
(e) 6 : c = 2 : 11

$$6: 33 = 2:1_{33}$$

$$c = 33$$

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

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

(e) 
$$27:63 = p:7$$
  
 $27:63 < 3:7$   
 $9=3$ 

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

(d) s:28 = 9:4

5=63 (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) 
$$42:36=g:6$$

$$42:36=$$
. 6  
(f)  $26:65=2:r$ 

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

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

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

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



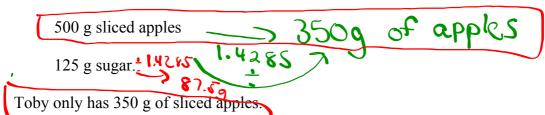
## **Solving Ratio Problems**

Have students work on Investigate pg. 287

Recipe for Apple pie that serves 6 people.

500 ml flour 350 mL

200 ml of margarine 14285 -> 140 mL



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

How many people will Toby's pie serve?



## **Solving Ratio Problems**

Have students work on Investigate pg. 287

Recipe for Apple pie that serves 6 people.

500 ml flour

50m | 350m |
200 ml of margarine

500 g sliced apples

50 g 350 q
125 g sugar.

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?

$$7 = 35 = 350$$

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

## 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

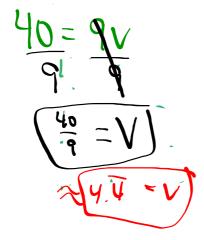
a) 
$$3: 8 = \frac{1}{2}: 2^{2}$$

$$P = 3 \times 6$$

$$P = 18$$

c) 
$$4:9 = \frac{v}{\sqrt{5}}:10$$

hint can you make the second term the same??



## Hass/Lone

Worksheet 8 - Solving Ratios

Extra Practice 8 Solving Ratios.pdf