

Warm Up Grade 8  
March 30, 2017

Thursday April 6, TEST on Chapter 5

1) In two separate pickle recipes the ratio of Sugar to Vinegar is different? Explain how you know which is sweeter? MUST show math

Recipe A calls for 6 cups of sugar for every 4 cups of vinegar

Recipe B calls for 4 cups of sugar for every 3 cups of vinegar

Handwritten work for comparing ratios:

Recipe A: S:V = 6:4. Multiply both by 3 to get 18:12.

Recipe B: S:V = 4:3. Multiply both by 4 to get 16:12.

Comparison: 18:12 vs 16:12. Since 18 > 16, Recipe A has more sugar per cup of vinegar.

Handwritten note: "know about sugar" with an arrow pointing to the 6 in the ratio for Recipe A.

2) Complete the chart

Fraction	Decimal	Percent
$\frac{15}{21}$ → Top ÷ Bottom	0.714	71.4%
$\frac{32}{100} = \frac{16}{50} = \frac{8}{25}$ ← place value	0.32	32%
$\frac{24}{100} = \frac{12}{50} = \frac{6}{25}$	0.24 ← ÷ by 100	24%
$\frac{117}{1000}$	0.117	11.7%
$\frac{12}{10} = \frac{6}{5}$	1.2	120% ← × 100

A is sweeter since it has more sugar when both have same amount of vinegar.

Find the missing variable:

may need to reduce before you start

a)  $18 : x = 27 : 12$   
 (Red arrows show 27 divided by 3 to get 9, and 12 divided by 3 to get 4)

$18 : \boxed{x} = 9 : 4$   
 (Blue arrows show 18 divided by 2 to get 9, and 9 multiplied by 2 to get 18)

$x = 8$

c)  $24 : 20 = 30 : y$

Reduce

$12 : 10$

$6 : 5 = 30 : \boxed{y}$   
 (Red arrow shows 30 multiplied by 5 to get 150, and blue arrow shows 150 divided by 6 to get 25)

$y = 5 \times 5$   
 $= 25$

b)  $63 : 36 = 21 : n$   
 (Green arrow shows 63 divided by 3 to get 21, and blue arrow shows 36 divided by 3 to get 12)

$n = 36 \div 3$   
 $n = 12$

# Class/Homework

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pg. 284 # 10, #11, #12, #13  
pg. 291 #4(ace), #5(ace), #6(ace)

Part 1) 10 MC

Part 2) 9 short response

#1) Find the missing number in each equivalent ratio ex)  $25 : 5 = \underline{\quad} : 7$

#2) Find the % of a number Ex) Find 200 % of 240      b) Find 0.5% of 240

#3) Discount, Sales Price, tax, cost with tax

ex) The cost of a a bike is \$550. Next week it is going on sale for 25% off. The sales tax is 15% here in NB. a) Calculate the discount and the sales price. B) Calculate the tax and the total cost with tax.

#4) Kevin has saved 82% of the regular price of his shirt which is \$74.62. How much more does he have to save to get to the regular price. (Hint : this is a 2 step question)

#5) Compare ratios *Walm up*

#6) Given a picture of shapes write the ratios indicated

#7) Comparing ratios and determine who has done better within a game

# 8) Express as a unit rate (Second term must be 1) Ex) Earn \$90 in 3 hours then \$30 in 1 Hour

#9) a) Given 3 options to buy, which is the better deal

b) If you need a certain amount which is the best option (Explain )