5th Grade Math

Fractions

Packet #10

Division of Fractions/Word Problems

Name:_____

Classwork Due: Friday, February 2nd!!!

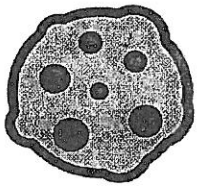
Grade 5 Fractions Word Problems

Name: _____ Class: _____

Write an expression and solve. Circle your answer. Draw a picture to help you solve it.

Question 1

Mother baked 14 cookies.
She shared them equally among her 5 children.
How many cookies did each child?



Question 2

Peter was very thirsty and drank 2 glasses of water. There was $\frac{3}{8}$ liter of water in the 1st glass and $\frac{3}{5}$ liter In the 2nd glass. How much water did Peter drink altogether?

Question 3

Mother bought $3\frac{1}{6}$ kg of sugar. She used $2\frac{1}{4}$ kg while baking cookies. How much sugar did she have left?

Question 4

Yesterday Aron ran $5\frac{3}{5}$ km. This morning Aron ran $.4\frac{3}{4}$.km.
How far did Aron run altogether?

Question 5

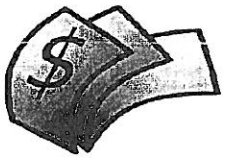
A pizza has a mass of $1\frac{1}{5}$kg. A cake has a mass of $2\frac{1}{4}$kg.
How much more does the cake weigh?

Question 6

John bought 75kg of chocolate. He packed the chocolate equally in 7 bags.
How much chocolate did he pack in each bag?

Question 7

Joe earned 2,100$. He spent $\frac{1}{5}$ on rent and $\frac{1}{3}$ on food.
How much money did he have left?



Question 8

Petra walked $4\frac{1}{5}$ km. Mandy walked $2\frac{1}{4}$ km less than Petra.
How far did they walk altogether?

Question 9

Michael bought 2 liters of milk. He drank $\frac{2}{5}$ liters of it and gave $\frac{3}{8}$ liters to his brother. How much milk did Michael have left?

Question 10

A string has a length of 25 meters. Cindy cut the string in 4 pieces of equal length.
How long was each piece?

Question 11

Jones ate $\frac{1}{3}$ cake. Ronnie ate $\frac{1}{4}$ cake more than Jones.
How much cake did they eat altogether?

Question 12

Petra weighs $60\frac{3}{4}$kg. Mandy weighs $59\frac{2}{4}$kg.
What is the difference between their weights?

Name:_____ Date_____

Mixed Review Class_____

Directions: Complete the following questions and show all work. Simplify all answers if necessary!

1) The 8 is 1/100 of which place value in the number 542.9071?	2) Which number is 10 times the value of the 3 in the number 42.31?
3) What is $6\frac{2}{3}$ of 21?	4) Find the product: $\frac{3}{9} \times \frac{4}{5}$
5) Find the product: 5 ½ x 6	6) Solve using the box method: $3\frac{2}{4} \times 8\frac{1}{3}$

Name:_____ Date_____

Class_____

7) Evaluate: $4 \div \frac{1}{3}$	8) Solve: $\frac{1}{5} \div 3$
9) Order from least to greatest: $\frac{2}{5}, \frac{1}{6}, \frac{4}{8}$	10) Order from least to greatest: $\frac{5}{9}, \frac{3}{4}, \frac{1}{5}, \frac{7}{8}$
11) Evaluate. $7\frac{2}{3} + 32\frac{6}{9}$	12) Evaluate. $26\frac{1}{2} - 13\frac{3}{4}$
13) Compute: $(7 - 3) + 15 \div 3$	14) Compute: $6 + 12 \div 4$
15) What is the product of 513 and 7?	16) 80.9185×10^4

Name _____ Date _____

Dividing Fractions (Like/Unlike Denominators) Class _____

Use your notes to help!

1) $2 \div \frac{1}{8} =$

2) $\frac{1}{5} \div 5 =$

3) $\frac{12}{18} \div \frac{1}{6} =$

4) $1\frac{5}{9} \div \frac{2}{9} =$

5) $\frac{15}{16} \div \frac{2}{4} =$

6) $\frac{20}{80} \div \frac{4}{80} =$

7) $\frac{16}{20} \div \frac{2}{40} =$

8) $3 \div \frac{5}{30} =$

9) $3\frac{2}{5} \div \frac{15}{20} =$

10) $2\frac{3}{6} \div \frac{3}{15} =$

11) $1\frac{4}{7} \div 2\frac{2}{3} =$

12) $\frac{9}{10} \div \frac{1}{2} =$

13) $\frac{4}{5} \div 7 =$

14) $1\frac{3}{9} \div 4 =$

15) $6 \div \frac{3}{9} =$

16) $\frac{12}{15} \div \frac{1}{5} =$

Name _____ Date _____

Dividing Fractions (Like/Unlike Denominators) Class _____

17) $\frac{16}{20} \div 2\frac{2}{5} =$

18) $\frac{20}{25} \div 2\frac{2}{5} =$

19) $2\frac{5}{8} \div \frac{3}{8} =$

25) $3\frac{3}{6} \div 1\frac{5}{12} =$

20) $2\frac{9}{10} \div 1\frac{7}{10} =$

26) $2 \div \frac{3}{4} =$

21) $8 \div \frac{7}{9} =$

27) $3\frac{8}{9} \div 5 =$

22) $3\frac{4}{9} \div 7 =$

28) $3\frac{6}{25} \div 1\frac{1}{5} =$

23) $4\frac{4}{15} \div \frac{2}{15} =$

29) $2\frac{24}{30} \div 2\frac{2}{5} =$

24) $2\frac{3}{10} \div 9 =$

30) $1\frac{2}{14} \div 1\frac{1}{2} =$

What strategies did you use to solve each problem?

_____

_____

_____

Name _____

5NF7 Dividing Whole numbers and unit fractions

February 10, 2015

Class _____

Directions: Solve each problem by drawing a picture and writing an expression to match the picture and problem. Evaluate the reasonableness of your answer by rereading the question

1) After Melody's birthday party one third of the cake was left over. The next day Melody and her two brothers ate equal portions of the remaining portion? How much of the cake did each of them eat?

Picture	Expression	Answer	Is it Reasonable?

2) Each batch of bread requires $\frac{1}{4}$ cups of flour. How many loaves of bread can be made from 7 cups of flour?

Picture	Expression	Answer	Is it Reasonable?

3) A gallon of milk was 1/5 full. I poured 6 equal glasses of milk from what was remaining. What fraction of the gallon is represented in each glass?

Picture	Expression	Answer	Is it Reasonable?

Name _____ Date _____

5NF7 Dividing Whole numbers and unit fractions Class _____

4) The bottle of soda was 1/5 full. I poured three equal glasses of soda from the remaining amount. What fraction of the bottle of soda does each glass represent?

Picture	Expression	Answer	Is it Reasonable?

5) Making a cake requires 1/3 pound of sugar. How many cakes will I be able to make with five pounds of sugar?

Picture	Expression	Answer	Is it Reasonable?

b) If each cake required 2/3 pounds of sugar, could I make fewer or more cakes with the same 5 pounds? How many cakes could be made if each requires 2/3 pounds of sugar?

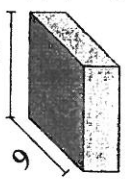
6) There are 6 students attending math enrichment. Mrs. Davis has 4 granola bars. Write and solve an expression that represents what amount of granola bars each student will receive if they are divided equally among all of the six students?

Picture	Expression	Answer	Is it Reasonable?

Read Directions/Examples Carefully

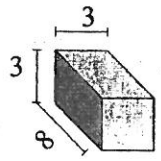
Finding Volume Of Rectangular Prisms Name:

Find the volume of each of the rectangular prisms. Measured in cm (not to scale).

1) 

What 3 single color rods could be used to build each prism? How many of each would you need.

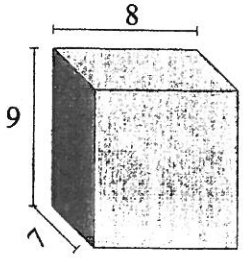
Ex: red = 54 dg = 18 blue = 12

2) 

COLOR Quantity

Lg = 24

Br = 9

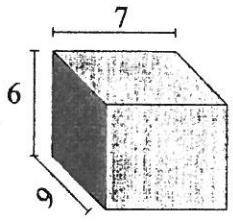
3) 

Color Quantity

___ = ___

___ = ___

___ = ___

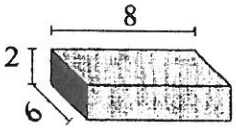
4) 

Color Quant.

___ = ___

___ = ___

___ = ___

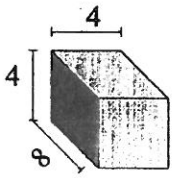
5) 

Color Quant.

___ = ___

___ = ___

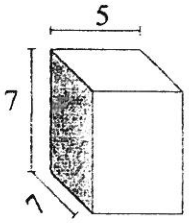
___ = ___

6) 

Color Quantity

___ = ___

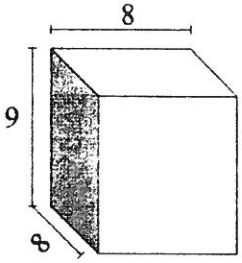
___ = ___

7) 

Color Quantity

___ = ___

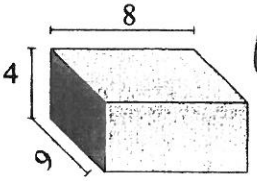
___ = ___

8) 

Color Quantity

___ = ___

___ = ___

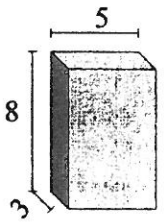
9) 

Color Quantity

___ = ___

___ = ___

___ = ___

10) 

Color Quantity

___ = ___

___ = ___

___ = ___

Answers

1. V = 108
2. V =
3. V =
4. V =
5. V =
6. V =
7. V =
8. V =
9. V =
10. V =