Hi Parents and Students,

In the following exercises, I tried to find a few problems that would connect our classroom learning to some “real world” problems. Some of these problems will have you to watch a video first or to go on-line to find some information. In doing so, I’ve tried to break it up a little so it’s not just doing a “packet” of math problems. I hope you will find it engaging. If you have any questions regarding any of the problems or cannot find something on-line, let me know and I will help you out. It’s a new way of doing things, so we’re going to give it a shot! 😊

1) Here is a copy of a Walmart receipt I recently spent there. Please look at the receipt and answer the following questions:

   ![Walmart Receipt]

   a) Find the total of the items: $40.59
   **(Please note there is a subtraction of $3.88 -- $3.88 -- it says “voided entry”) – so don’t include that $3.88 in your total.

   b) Using 8% for sales tax, find the amount of sales tax: $3.25
   **(Remember to round to the nearest cent: example: $1.456 = $1.46)

   c) Add the Total in Part A to the sales tax in Part B: $43.84

   d) If you gave the clerk $50, how much change would you get back?

      $6.16

(Parents – for more practice with this, give your child(ren) your store receipts or have them go shopping on-line or in your house for some items and have them practice – “Play Store”) – If you have the game Monopoly – you could use the money in the game to play with as well.

Which city was warmer? Anchorage

How much warmer was it? 19 degrees fahrenheit

3) My calf, Ali, will be 1 year old in June. Currently, she is 9 months old and weighs about 0.375T. How many pounds is this equal to?

2,000 lbs = 1T {T = Ton} (hint: set up your labels and line = line – BUT, not the only way to solve this – can use other methods too)

\[
0.375 \times 750 = \frac{1}{2000}
\]

Answer: 750 pounds

4) Compare: 0.375T \_ \_ \_ \_ \_ \_ ½ T use <, >, or =

5) When Ali was born, she weighed approximately 90 pounds. Using your answer from #3, approximately how many pounds has Ali gained each month? – 9 months old today, 3/29/20

\[
\frac{660 - 91}{73} = 7.3
\]

Ali has gained approximately \( \frac{73}{73} \) pounds per month.
6) A maple tree grows about 1 ½ feet per year. How tall will it be in 40 years?

\[ 40 \times 1.5 = 60 \]

Answer: 60 feet

7) You and your family are planning a trip to Letchworth State Park. The following is an approximate cost for 5 people going for the day. Compute each of the costs and then add up all the expenses to get a final cost of going to the Park for the day. Some costs are given to you (They are in bold print.) and others you need to figure out.

A) Park Entrance Fee: $10

B) Miles from Geneseo to Letchworth State Park = @10 miles
Round trip and driving through park = @ 30 miles total

Gasoline cost -- approximately $4.60 (Gas prices = @$2.30 per gallon and most cars get at least 15 mpg)

C) Picnic items:
   i. Ham Sandwiches = $4.99 per pound – need 3 lbs.

   Price for ham: $14.97

   Loaf of bread = $1.89

   ½ pound of provolone cheese = $2.30 per pound

   (Condiments for sandwiches are free today!)

   Price for chips: $5.98

   ii. 2 bags of chips = $2.99 per bag

   iii. 1 bag of apples = $4.99

   iv. Water bottles = $0.25 per bottle (3 people want water) = $0.75

   Powerade = $0.80 per bottle (2 people want PowerAde) = $1.60

D) Dessert
   v. On the way home, the family stopped to get ice cream cones:

   $2.95 per cone x 5 = $14.75 cost for ice cream

Total cost for a day trip to Letchworth State Park: $60.65
8) Geometry isn’t something we have explored yet this year. BUT, a neat thing to do that is artistic and geometry that I think you will have fun doing is to make a TESSELLATION. I have provided a picture for you here of some samples others have done.

Here is a link to a youtube video to show you how to make one if you want to:
{copy and paste into our address bar – it may take a minute or 2 to load}
https://www.youtube.com/watch?v=WBVzoaFI9OE

Make one any size that you have paper for and if you can take a picture of it and share it with me, I will try to download them and share with the class next week.

Have your whole family make one and share each others when you are done – show and tell!

9) Practice traditional multiplication **without a calculator**:

\[ 489 \times 25 = 12225 \]

**Answer:** \[ 12225 \]

**Parents** – you can provide your child(ren) with more problems here if you would like to help them practice some more:

a)  

b)  

c)
Review Problems: *Show all the steps!*

10) **PEMDAS:**

\[3^2 \times 129 - 18 \div 3 \times 9 \]
\[= 9 \times 129 - 18 \div 3 \times 9 \]
\[= 9 \times 129 - 54 \]
\[= 84 \]  

**Answer:** 84

11) \(m + 18 = 39\)  
\[m = 21\]

12) \(m \div 3 = 99\)  
\[m = 297\]

13) \(6m = 84\)  
\[m = 14\]

14) \(m - 128 = 3,482\)  
\[m = 4,740\]
15) One box of a Betty Crocker Devil's Food cake will make 24 cupcakes.

The ingredients you need are:
1 ¾ cups water; ½ cup vegetable oil and 3 eggs.

A) If I need to make 72 cupcakes, how many boxes will I need?

Answer: 3 boxes

B) How many cups of water will you need to make 72 cupcakes?

3 ¾ cups of water

C) How many cups of vegetable oil will you need to make 72 cupcakes?

1 ½ cups of vegetable oil

D) How many eggs will you need to make 72 cupcakes?

9 eggs

E) If each box of cake mix costs $1.29, how much will it cost for 72 cupcakes?

$3.87

F) How much does it cost per cupcake?

$0.05 per cupcake
Example:

So, would be colored pink.

Color Key:

Review on Equivalent Fractions - Reduce the fractions and then color according to the key.

We love equivalent fractions!