

# Eastmont Math Challenge

Week 10: 6/8-6/12

As you work through the problems, work independently but feel free to use online resources if you need help (khan academy or google) Check your google classroom daily for possible updates from your teachers. \*Answer keys for handouts will be available the following week.

**Standards:** Ratio/proportion, Number systems, Geometry/measurement

## Measuring Cup Musings

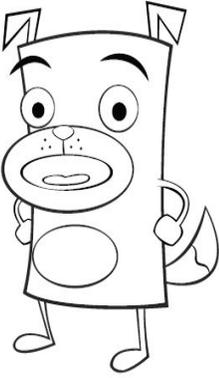
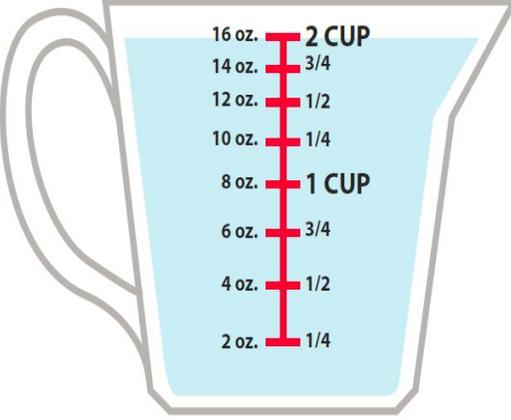
**Liquid Volume** is the quantity of three-dimensional space liquid occupies at rest.



This measuring cup has 2 cups of water in it.

What is the smallest amount it can measure in ounces (oz.)?

Answer: **2 oz.**



**Directions:** Use the measuring cup to help you answer the following questions.

1. How much water will the measuring cup have if you poured  $\frac{1}{2}$  of it out? \_\_\_\_\_
2. How many **ounces** of water is equal to  $1\frac{1}{4}$  cup of water? \_\_\_\_\_
3. Thirty-two **ounces** of water is equivalent to how many **cups** of water? \_\_\_\_\_
4. Two-fourths **cup** of water is how much in **ounces**? \_\_\_\_\_
5. How many **cups** are in 64 **ounces**? \_\_\_\_\_
6. How many **ounces** of water are equal to  $\frac{6}{8}$  cups of water? \_\_\_\_\_

## Comparing and Ordering Fractions Use $>$ , $<$ , or $=$

- 7)  $\frac{1}{6}$  \_\_\_\_\_  $\frac{2}{6}$       8)  $\frac{5}{7}$  \_\_\_\_\_  $\frac{2}{7}$       9)  $\frac{1}{2}$  \_\_\_\_\_  $\frac{5}{10}$       10)  $\frac{2}{3}$  \_\_\_\_\_  $\frac{4}{6}$
- 11)  $\frac{5}{9}$  \_\_\_\_\_  $\frac{1}{3}$     12)  $\frac{1}{8}$  \_\_\_\_\_  $\frac{1}{9}$     13)  $\frac{2}{5}$  \_\_\_\_\_  $\frac{1}{2}$       14)  $\frac{5}{6}$  \_\_\_\_\_  $\frac{6}{7}$

## Name the next three terms (numbers) in each sequence.

15) 1, 6, 11, 16, 21, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

16) 2, 4, 6, 8, 10, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

17) 4, 8, 12, 16, 20, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

18) 50, 45, 40, 35, 30, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

## Time and Temperature

### Convert:

- 19) 10 minutes = \_\_\_\_ seconds      20) 2 days = \_\_\_\_ hours  
21) 24 months = \_\_\_\_ years      22) 3 hours = \_\_\_\_ minutes  
23) 120 seconds = \_\_\_\_ minutes      24) 28 days = \_\_\_\_ weeks

### Estimate the temperature:

- 25)  $10^{\circ}\text{C}$  is about \_\_\_\_  $^{\circ}\text{F}$ .      26)  $70^{\circ}\text{F}$  is about \_\_\_\_  $^{\circ}\text{C}$

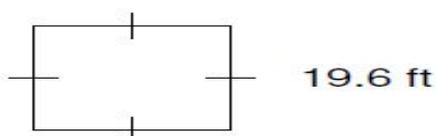
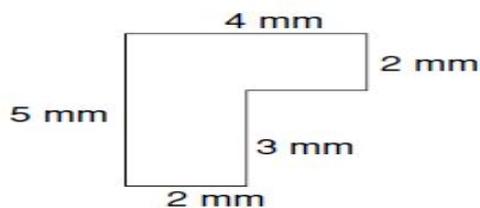
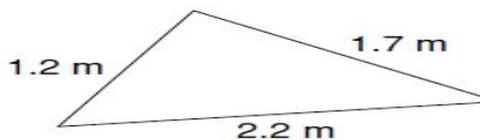
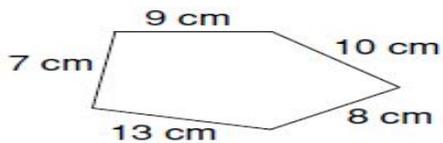
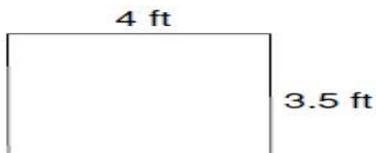
### Time:

27) A train arrived at its destination at 3:15 P.M. If the trip took 1 hour and 10 minutes, at what time did the train depart? \_\_\_\_\_

28) Marcella started doing her homework at 5:25 P.M. She finished her homework 45 minutes later. At what time did Marcella finish her homework? \_\_\_\_\_

## PERIMETER

Find the perimeter of each figure and **highlight** or underline the letter next to the correct answer. To solve the riddle, match the letter of the correct answer to the number of the problem.



What is sold by the yard, but worn by the foot?

31   34   32   29   33   30

29) **I** 7.5 ft **B** 1.5 ft **P** 15 ft **L** 12 ft

30) **P** 39 cm **T** 47 cm **U** 37 cm **J** 38 cm

31) **F** 2.9 m **M** 3.4 m **D** 3.9 m **C** 5.1 m

32) **S** 14 mm **R** 16 mm **V** 12 mm **Y** 240 mm

33) **E** 40 in. **H** 90 in. **B** 15 in. **S** 75 in.

34) **T** 19.6 ft **E** 39.20 ft **G** 58.8 ft **A** 78.4 ft

## \*Helpful Hints\*

### Vocabulary

**Measuring Cup:** a cup marked with amounts for measuring ingredients

**Equivalent:** equal, the same amount

**Compare:** are they the same or different - in this case we are seeing which number is bigger or if they are the same.

**Terms:** numbers

**Sequence:** the order the numbers are in

**Convert:** change

**Estimate:** educated guess, close answer

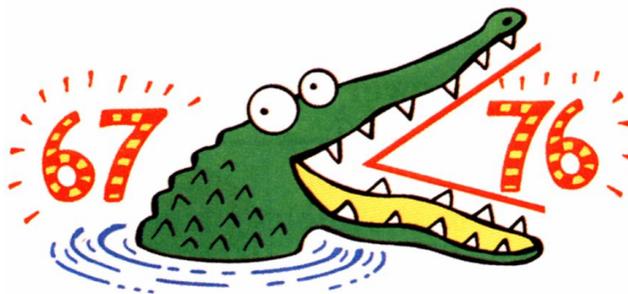
**Destination:** where something is going

**Depart:** leaving a place

### Comparing and Ordering Fractions Use $>$ , $<$ , or $=$

Remember the alligator eats the bigger number!

Ex.  $67 < 76$  because  
67 is less than 76



When working with Fractions first find a common denominator or convert it to a decimal before you decide which is bigger!

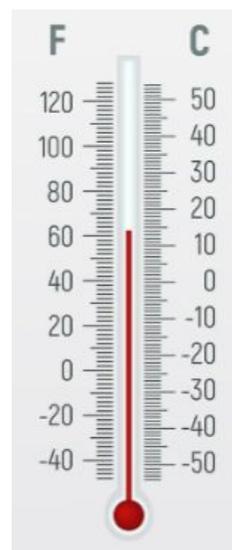
Here are some videos for help:

Comparing using number lines: <https://www.youtube.com/watch?v=nH7s9Sljwus>

Comparing with common denominators: [https://www.youtube.com/watch?v=u\\_QTuWj107o](https://www.youtube.com/watch?v=u_QTuWj107o)

### Time and Temperature

Here are some helpful charts to help you convert times and temperatures:



**Perimeter:** The distance around the outside of a closed figure. Add all of the sides. See last week's hints for more help and videos on perimeter.  $P = L + W + L + W$