Name: _____ Date:December 5, 2019___

Math: Intro to Ratio Tables

notes 61 & 62   hmwk wksht.

Social Studies:

- **Review for Test Monday**

HW: TEST MONDAY

ELA: Daily Warm-Up

Story Elements

Science
① Self-check NB (SCORE IT)
② Peer Review Claim/ Evidence Pg 24
HAND IN
③ REVIEW + CORRECT Force Quiz #1

Computer Apps/ Technology Corrections DUE 12/6/19

Ancient Egypt Test Review
Test Monday 12/9/19

Geography:
- Ancient Egypt is located on the Continent of Africa, and is divided into two regions, Upper (South) and Lower (North)
- The Nile River brought life to Egypt. It flows north and empties into the Mediterranean Sea. It is the longest river in the world.
- The Nile River branches out and forms the delta or triangle- shaped piece of land made of soil deposited by the river.
  - o This is where the majority of farming took place.

Civilizations develop:
- Hunter gatherers moved into the Nile valley and settled into small villages along the Nile, where they began to farm.
- Farmers developed an irrigation system to control the flood waters.
- The Nile provided early Egyptians with an abundance of food.
- Natural barriers made Egypt hard to invade.
- Farms eventually grew into villages then cities.

Kings Unify Egypt:
- King Menes rose to power in Upper Egypt (South), and wanted to unify all of Egypt.
- Menes' armies invaded Lower Egypt (North) and took control.
- Menes is considered the first pharaoh of Egypt, and founded Egypt's first dynasty. (series of rulers from same family)
- From then on Menes and rulers after him wore a double crown to symbolize their rule over both upper and Lower Egypt.

Old Kingdom:
- Pharaoh was the ruler.
    - Egyptians believed that the Pharaoh had come to earth to rule Egypt as for rest of the gods.
    - The most famous pharaoh of the Old kingdom was Khufu, who ordered monuments built for him.
- Social Structure
    - Below the pharaoh was the upper-class made up of priests, government officials and nobles.
    - The middle class had scribes, craftspeople and merchants.
    - The lower class was made up of framers, servants and slaves. (farmers made up 80% of the population)
- Religion
    - Egyptians were polytheistic and believed in many gods.
    - Central to Egyptian religion was their belief in the afterlife, or life after death.
    - Egyptians believed that in order for the dead to survive in the afterlife, they had to preserve the body. So they started to mummify the bodies.
    - Pyramids were built as royal tombs for the Pharaoh.

Middle and New Kingdoms:
- During the middle kingdom Pharaohs began to lose power to the Nobles.
- During the chaos the Hyksos took over Egypt and ruled for 200 years
- Ahmose of Thebes drove the Hyksos out of Egypt and started the New kingdom.
- During the new kingdom military conquests made Egypt rich
- Conquests brought Egypt into contact with distant lands, and trade routes developed.
- Queen Hatshepsut increased Egyptian trade and used the wealth to promote architecture.

Egyptian Achievements:
- Egyptians used Papyrus a paper like material to keep records.
- The hieroglyphic writing system had over 600 symbols.
- The Rosetta stone helped people to decipher the hieroglyphics.
- Tombs were filled with everything the Pharaoh would need in the afterlife.
- Temples were filled with hieroglyphics, paintings and a sanctuary.
    - o Temples were believed to be home to the gods.

Science Quiz #1 Corrections
Answers

Q1—8

Write out the correct word and definition example.

1) E. Force is an interaction between objects; a push or pull

2) D   3) C   4) B   5) A   6) B

7) B   8) D   9) D

#9 = This is a metric tool. Each tic mark represents 0.02 so, the answer is

(D)   3.4 N

#10 Correct answer = 40.0g

WRITE OUT 11—

#11 Write out Newton's 1st Law

(A) write out

#12 FRICTION is acting to resist the forward motion of the cart.

(B) write out

#13 The plastic straws were placed under the wooden block to decrease

(B)

14 (C) Write out Newtons 3rd Law
15 (A) when 500N Pushes up, 500N pushes down

16) Explain what makes things move
     (Answer)
        • Define force
        • FRICTION
             AND/OR
        • Newtons 1st Law

17. Name The Forces

When Kicked	When the ball rolls	When ball stops

Name _____

Date _____ Pd _____

RATIO TABLES

A ratio _____table_____ is a way to _____Compare_____ quantities.

1. Todd earns $3 for every 5 chores he completes on his chore chart. Find equivalent ratios using the ratio table below.

Ratio Value

CHORES	TOTAL $
5	3
10	6
15	9
20	12
25	15

CHORES : TOTAL $
5:3
5:3
5:3
5:3
5:3

a. How are the number of chores and the amount of money earned related? _____
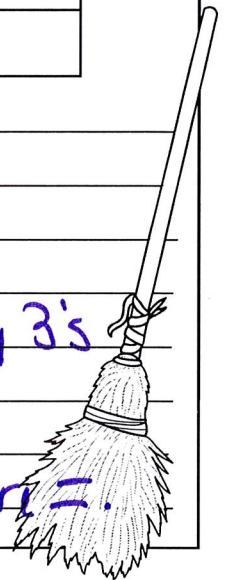
_____For Every 5 chores he get $3._____

b. How are the values in the chores column related? _____

_____Chores Count by 5's_____

c. How are the values in the money column related? _____money count by 3's_____

_____

d. What do you notice about the ratio column? _____

_____All ratios Simplify to 5:3. All ratios are =._____

2. Mr. Baker is making pancakes and reads the recipe on the back of the pancake box. Use the information in the table to determine the ratio of the cups of pancake mix to cups of water.

CUPS OF PANCAKE MIX	CUPS OF WATER	RATIO
1	1.5	1:1.5
2	3	1:1.5
3	4.5	1:1.5
4	6	1:1.5
10	15	

a. How many cups of pancake mix will be needed if there are 15 cups of water?

$$M \frac{1}{1.5} = \frac{}{15}$$

10 cups of Mix

Ratio tables are both **additive** and **multiplicative**.

Fabric is $\frac{2}{3}$ the pillows.

Pillows are $\frac{3}{2}$ the fabric

YARDS OF FABRIC	NUMBER OF PILLOWS
2	3
4	6
6	9
8	12

(×3, +2, +3, ×2/3)

RATIO **value**
2:3
2:3
2:3
2:3

In 3-5, use the information to answer the questions below.

3. A cookie recipe calls for 3 eggs for every 2 dozen cookies.

EGGS	3	6	9	12
COOKIES (DZ)	2	4	6	8

(×2, ×3, ×4)

a. How many eggs will be needed for 60 dozen cookies?

$2 \times 30 = 60$ or $\frac{60}{1} \cdot \frac{3}{2} = 90$
$3 \times 30 = 90$

90 eggs

b. How many cookies can be made with 12 eggs?

$\frac{12}{1} \cdot \frac{2}{3} = 8$ dozen cookies

or $3 \times 4 = 12$ $2 \times 4 = 8$

4. A developer earns $6.00 for every 21 apps downloaded.

APPS	21	42	63	84
$ EARNED	6	12	18	24

(×2, ×3)

a. How many apps will need to be downloaded in order to earn $84?

$\frac{21}{6} = \frac{294}{84}$ **294 apps**

b. How much money will the developer earn when 105 apps are downloaded?

$\frac{21}{6} = \frac{105}{30}$ **$30**

or $\frac{105}{1} \cdot \frac{2}{7} = \frac{30}{1}$

5. The relationships between the number of babies to the number of nursery workers is shown in the table below.

BABIES	WORKERS
5	2
10	4
15	6
20	8

×7, 35, 14

a. What is the ratio of babies to nursery workers?

5:2

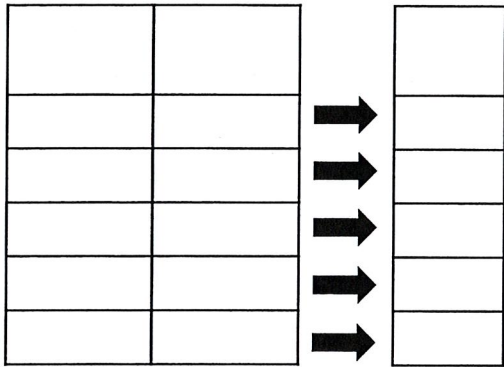b. How many nursery workers are required if there are 35 babies?

14 workers $\frac{35}{1} \cdot \frac{2}{5} = 14$

c. If seven nursery workers are available, then what is the maximum number of babies that they can accept?

$\frac{7}{1} \cdot \frac{5}{2} = \frac{35}{2} = 17.5$ **17 babies**

Summarize today's lesson:

Name _____

Date _____ Pd_____

RATIO TABLES

Use the situation below to create a ratio table and graph. Then, answer the questions.
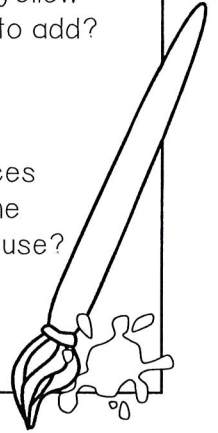
1. An artist mixes yellow and blue paint to make the perfect shade of green. She uses 2 ounces of blue paint for every 7 ounces of yellow.
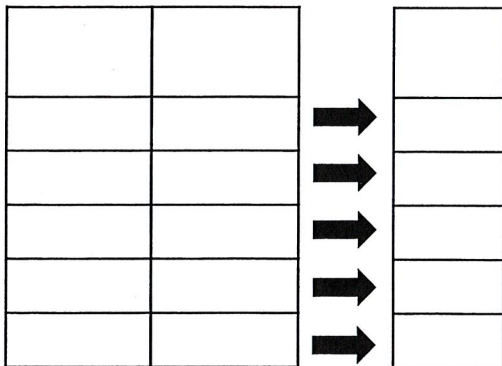
a. How many ounces of yellow will the artist need to add to 12 ounces of blue?

b. The artist realizes she has 49 ounces of yellow left. How many ounces of blue will she need to add?

c. If the mixing container only holds 40 ounces of paint, then what is the most green paint the artist can make, and what recipe should she use?

2. Mark owns a personal training business. He makes a total of $500 for every 3 clients he acquires. Use the information to complete the table below.

a. If Mark is saving to purchase $2,500 in new equipment, then how many clients will he need?

b. How much money will 21 clients bring in?

c. Mark hopes to one day earn $10,000. Estimate how many clients Mark would need.