6th Grade
April 15, 2021

Today we will:

-Review HW

-Watch video on functions

-Work on classwork

HOMEWORK:

Extra Practice WS

THQ due TOMORROW

OPTIONAL Assignment on equations for points back on quiz due NEXT FRIDAY, APRIL 23

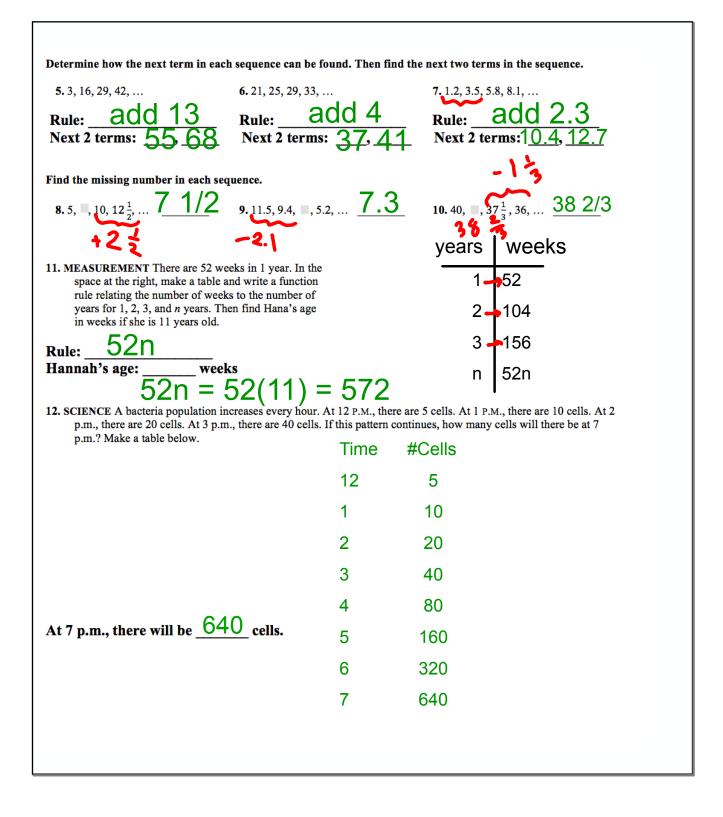ALEKS time and topics due Monday night

Task #1:

<mark>Please check this Lesson 2 HW Practice WS (also on next slide). Checkmark each answer you get correct and circle or x the incorrect answers and fill in correct answers. When finished, put this into your binder after your completed notes. Label your page "Unit 8 Lesson 2 HW Practice WS"</mark>
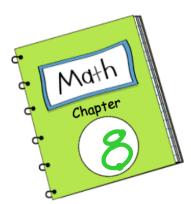
Chapter 8 Lesson 2 Practice

Function Rules

Use words and symbols to describe the value of each term as a function of its position. Then find the value of the sixteenth term in the sequence.

1.

Position	2	3	4	5	6
Value of Term	8	12	16	20	

(handwritten: 7 8 9 10 11 12 13 14 15 16)

Rule in words: _multiply by 4_
Expression using n: _4n_
Value of 16th term: _4(16) = 64_

2.

Position	8	9	10	11	n
Value of Term	14	15	16	17	

Rule in words: _add 6_
Expression using n: _n + 6_
Value of 16th term: _16 + 6 = 22_

3.

Position	11	12	13	14	n
Value of Term	4	5	6	7	

Rule in words: _subtract 7_
Expression using n: _n - 7_
Value of 16th term: _16 - 7 = 9_

4.

Position	21	22	23	24	n
Value of Term	12	13	14	15	

Rule in words: _subtract 9_
Expression using n: _n + (-9) or n - 9_
Value of 16th term: _16 - 9 = 7_

Determine how the next term in each sequence can be found. Then find the next two terms in the sequence.

5. 3, 16, 29, 42, …

Rule: _add 13_
Next 2 terms: _55, 68_

6. 21, 25, 29, 33, …

Rule: _add 4_
Next 2 terms: _37, 41_

7. 1.2, 3.5, 5.8, 8.1, …

Rule: _add 2.3_
Next 2 terms: _10.4, 12.7_

Find the missing number in each sequence.

8. 5, ▦, 10, $12\frac{1}{2}$, …   _7 1/2_

$+2\frac{1}{2}$

9. 11.5, 9.4, ▦, 5.2, …   _7.3_

-2.1

10. 40, ▦, $37\frac{1}{3}$, 36, …   _38 2/3_

$-1\frac{1}{3}$

$38\frac{2}{3}$

11. MEASUREMENT There are 52 weeks in 1 year. In the space at the right, make a table and write a function rule relating the number of weeks to the number of years for 1, 2, 3, and n years. Then find Hana's age in weeks if she is 11 years old.

Rule: _52n_
Hannah's age: _____ **weeks**

$52n = 52(11) = 572$

years	weeks
1	52
2	104
3	156
n	52n

12. SCIENCE A bacteria population increases every hour. At 12 P.M., there are 5 cells. At 1 P.M., there are 10 cells. At 2 p.m., there are 20 cells. At 3 p.m., there are 40 cells. If this pattern continues, how many cells will there be at 7 p.m.? Make a table below.

Time	#Cells
12	5
1	10
2	20
3	40
4	80
5	160
6	320
7	640

At 7 p.m., there will be _640_ **cells.**

Math Chapter 8

TITLE: Functions

Date	Lesson	Topic/Assignment
4/12	1	Function Tables In-Class Notes
4/13	1	HOMEWORK: Homework Practice WS
4/13	1	CLASSWORK: Pg 583 WS
4/14	2	Function Rules Video Notes and In-Class Notes
4/15	2	HOMEWORK: Practice WS
4/15	2	CLASSWORK: Extra Practice WS
4/16	3	Functions and Equations In-Class Notes
4/16	3	CLASSWORK: Pg 599 WS

Video:

https://www.mathantics.com/lesson/what-are-functions

Welcome to our class

IN THIS CLASSROOM
WE DON'T
give up,
BUT WE DO
give our
best effort

HARD
WORK
PAYS
OFF

WELCOME

6th Grade
Homework

Extra Practice WS

THQ due TOMORROW

ALEKS time and topics due
Monday night

Complete and put into binder.

NAME _____ DATE _____ PERIOD _____

Lesson 2 Extra Practice

Function Rules

Use words and symbols to describe the value of each term as a function of its position. Then find the value of the twelfth term in the sequence.

1.

Position	2	3	4	5	n
Value of Term	14	21	28	35	■

Rule in words: _____
Expression using n:_____
Value of nth term:_____

2.

Position	5	6	7	8	n
Value of Term	11	12	13	14	■

Rule in words: _____
Expression using n:_____
Value of nth term:_____

Find the rule for each function table.

3.

n	■
1	3
2	6
3	9
4	12

Rule: _____

4.

n	■
1	6
2	7
3	8
4	9

Rule: _____

5.

n	■
1	5
2	10
3	15
4	20

Rule: _____

6.

n	■
1	13
2	14
3	15
4	16

Rule: _____