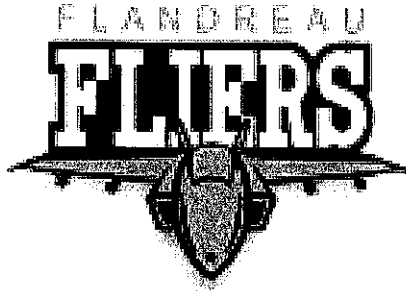


Flandreau Middle School

Distance Learning Plan



March 23-27, 2020

Ms. Zach's 8th Grade Math

Daily Checklist

- Guardian please initial upon completion
- Return this cover sheet with work

___ Lesson 6.1 Reteach

___ Skill 10 Linear Functions Packet

Flandreau Middle School: Distance Learning Plan

Unit/Lesson: Functions **Subject/Grade:** 8th Grade Math **Dates:** March 23-27

<p>What tasks do I need to complete?</p>	<p>Monday (3/23): Lesson 6.1 Reteach</p> <p>Tuesday (3/24): Skill 10 Linear Functions: Example 1-2, Problems #1-6</p> <p>Wednesday (3/25): Skill 10 Linear Functions: Example 3-4, Problems #7-11</p> <p>Thursday (3/26): Skill 10 Linear Functions: Example 5, Problems 12-13</p> <p>Friday (3/27): On a separate sheet of paper, write an example of a function and a nonfunction. You can use the bubbles, table, graph or equation.</p>
<p>What will I need to bring back to school?</p>	<ul style="list-style-type: none"> - Please return the entire math packet and sheet with examples of functions
<p>What materials do I need?</p>	<ul style="list-style-type: none"> - Math packet - Extra sheet of paper (can write on back of Reteach if needed) - Pencil
<p>Who can I contact if I have questions?</p>	<ul style="list-style-type: none"> - Sarah Zach - Sarah.Zach@k12.sd.us Google Voice - (605) 951-0845
<p>Notes from my teachers:</p>	<ul style="list-style-type: none"> - Use the Lesson pages from when we did it in class
<p>What standards am I learning?</p>	<ul style="list-style-type: none"> - 8.F.1. Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.

SKILL
10

Linear Functions

Example 1

Function:

Input	Output
1	3
2	6
4	7
5	9

Each input value is paired with one output value.

Not a function:

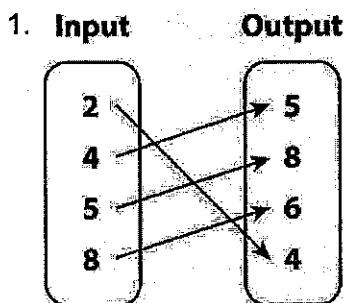
Input	Output
1	3
2	6
4	7
5	9

The input 2 has more than one output.

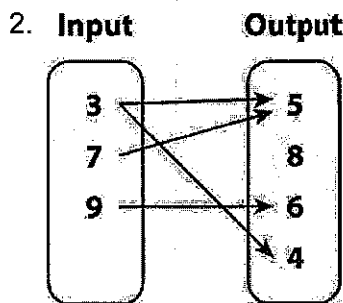
Vocabulary
Function
Linear function
Nonlinear function

Check

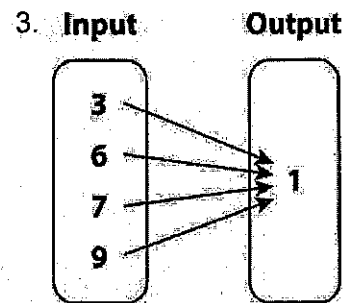
Determine if each relationship is a function.



Yes No



Yes No



Yes No

Example 2

Function:

Input	Output
2	5
3	8
4	6

Each input is unique.

Not a function:

Input	Output
2	5
2	8
4	6

Each input is not unique.

Check

Determine if each relationship is a function.

4.

Input	Output
6	4
8	6
6	6

Yes No

5.

Input	Output
4	4
2	6
8	8

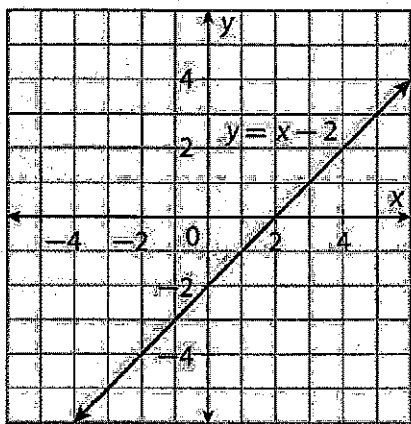
Yes No

6. What's the Error? Abram said the table at the right does not show a function. Explain the error.

Input	Output
3	2
5	2
7	2

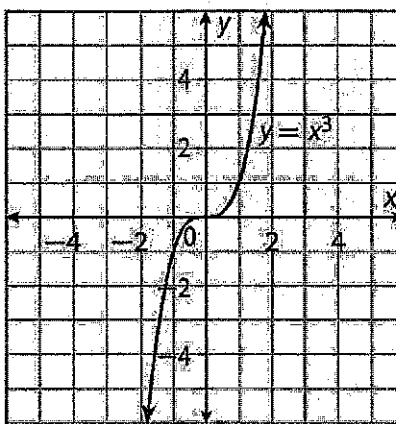
Example 3

Linear Function



A straight line is formed.

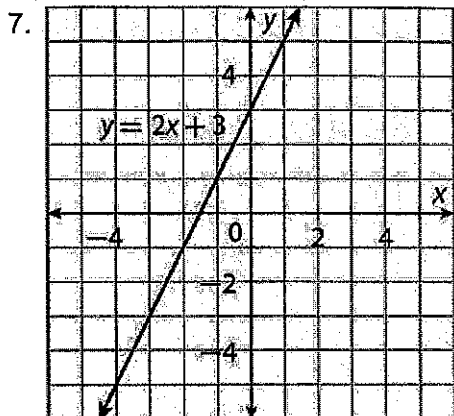
Nonlinear Function



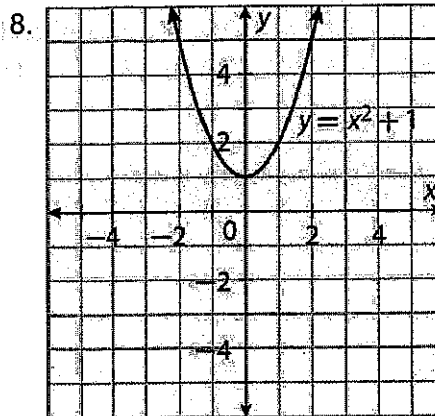
A straight line is not formed.

Check

Determine if each graph represents a linear function.



Yes No



Yes No

Example 4

Examples of Linear Functions:

$$y = x + 3$$

$$y = 3x$$

$$y = \frac{x}{3}$$

$$y = 3 - x$$

$$y = -3x$$

Examples of Nonlinear Functions:

$$y = \frac{3}{x}$$

$$y = 3x^2$$

$$x = 3$$

Check

Determine if each equation represents a linear function.

9. $y = -4x + 1$

Yes No

10. $y = \frac{2}{3}x$

Yes No

11. $y = x^2 + 4$

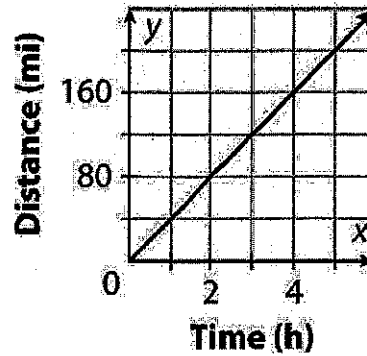
Yes No

Example 5

Mr. Anderson drove 40 miles per hour each hour for 5 hours. The equation $y = 40x$ describes the relationship between the time and the distance.

Distance Traveled

Time (hours)	Distance (miles)
0	0
1	40
2	80
3	120
4	160
5	200

Distance Traveled**Check**

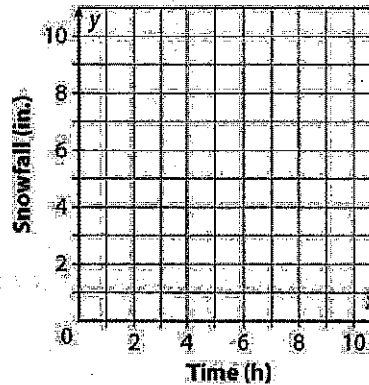
The equation $y = 2x$ represents the total amount of snow that fell during a storm.

12. Complete the table.

13. Complete the graph.

Snowfall

Time (hours)	Amount of Snow (in.)
0	
1	
2	
3	
4	
5	

Snowfall**SKILL 10 LINEAR FUNCTIONS**