



Compare Linear Functions

Grade 5 Algebra Worksheet

Date: _____

Name: _____

LET'S MAKE LEARNING FUN

1. Use the rule $y = 2x - 3$ to complete the table below:

Input, x			2		4	5	7	8
Output, y	-3	-1		3				

2. Find a rule. Complete the table.

Input, x	3	4	5	6	8	10
Output, y	5	6	7	8		12

$y = x + \underline{\hspace{1cm}}$

Input, x	5	8	9		12	13
Output, y	12			17	19	

$y = x + \underline{\hspace{1cm}}$

Input, x	-2	-1	0	1		6
Output, y	-1	0			6	7

$y = x + \underline{\hspace{1cm}}$

3. Use the rule $y = 3x + 2$ to complete the table below:

Input, x			5		2	1	0	-1
Output, y	32	20		11				

4. Solve for y using each value of x given below, where $y = 5x - 6$:
- a. $x = 3$; _____ b. $x = 8$; _____ c. $x = 10$; _____

5. Solve for y using each value of x given below, where $y = 3x - 10$:
- a. $x = 4$; _____ b. $x = 6$; _____ c. $x = 0$; _____

6. Write an equation which represents the rule:

Multiply by 5 and add 14.

Solution:

7. Write an equation which represents the rule:

Divide by 4 and subtract 3.

Solution:

8. Explain the rule that the equation $y = 3x - 7$ represents.

Solution:

Compare Linear Functions

Grade 5 Algebra Answer Sheet

1. Use the rule $y = 2x - 3$ to complete the table below:

Input, x	0	1	2	3	4	5	7	8
Output, y	-3	-1	1	3	5	7	11	13

2. Find a rule. Complete the table.

Input, x	3	4	5	6	8	10
Output, y	5	6	7	8	10	12

$$y = x + \underline{2}$$

Input, x	5	8	9	10	12	13
Output, y	12	15	16	17	19	20

$$y = x + \underline{7}$$

Input, x	-2	-1	0	1	5	6
Output, y	-1	0	1	2	6	7

$$y = x + \underline{1}$$

3. Use the rule $y = 3x + 2$ to complete the table below:

Input, x	10	6	5	3	2	1	0	-1
Output, y	32	20	17	11	8	5	2	-1

4. Solve for y using each value of x given below, where $y = 5x - 6$:

a. $x = 3$; $y = \underline{9}$ b. $x = 8$; $y = \underline{34}$ c. $x = 10$; $y = \underline{44}$

5. Solve for y using each value of x given below, where $y = 3x - 10$:

a. $x = 4$; $y = \underline{2}$ b. $x = 6$; $y = \underline{8}$ c. $x = 0$; $y = \underline{-10}$

6. Write an equation which represents the rule:

Multiply by 5 and add 14.

$$\text{Solution: } y = 5x + 14$$

7. Write an equation which represents the rule:

Divide by 4 and subtract 3.

$$\text{Solution: } y = \frac{x}{4} - 3$$

8. Explain the rule that the equation $y = 5x - 12$ represents.

Solution:

Multiply by 5 and subtract 12.