

CH 8 STEAM REVIEW

Subjective Short Answer

1. Complete the table.

Input (x)	$3x - 2$	Output (y)
3	■	■
6	■	■
■	■	22

Find the rule for each function table.

2.

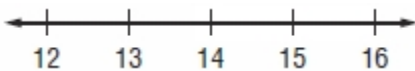
Input (x)	Output (y)
4	1
12	3
20	5

3.

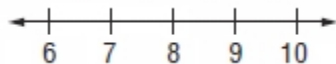
Input (x)	Output (y)
0	3
1	5
2	7

Write an inequality to represent each situation. Then graph the inequality.

4. Anyone over age fourteen must buy an adult ticket.



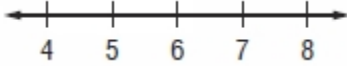
5. Kendra can spend at most \$8 on lunch.



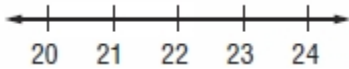
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Solve each inequality. Then graph the solution on a number line.

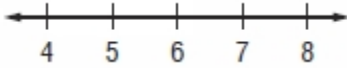
6. $a + 14 < 20$



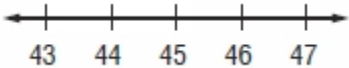
7. $c - 15 \geq 7$



8. $8m \leq 48$



9. $\frac{h}{5} > 9$



10. Riaz wants to spend no more than \$1,250 on his trip. The airfare is \$439. Write and solve an inequality to find the maximum amount he can spend on the rest of his trip.

Use the table below.

Position	1	2	3	4	n
Value of Term	9	18	27	36	■

11. Use words and symbols to describe the value of each term as a function of its position.

Write an equation to represent the function.

12.

Input, x	1	2	3	4
Output, y	5	10	15	20

13.

Input, x	1	2	3	4
Output, y	9	16	23	30

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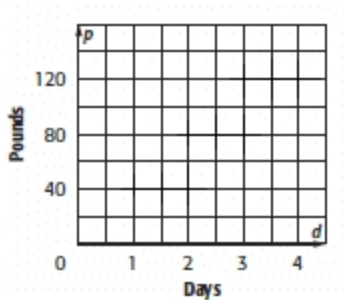
Use the following information.

An adult male gorilla eats about 40 pounds of vegetation every day.

14. Write an equation to find p , the number of pounds of vegetation an adult male gorilla eats in d days.
15. Make a table to show the relationship between the number of pounds p an adult male gorilla eats in d days.

Days, d	1	2	3
Pounds, p			

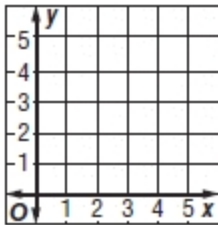
16. Graph the ordered pairs from the table in the previous exercise..



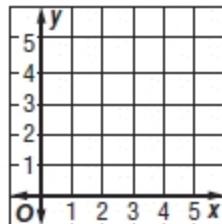
17. Analyze the graph in the previous exercise.

Graph each equation.

18. $y = 0.5x + 2$



19. $y = x + 1$



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Answer Key

1.

Input (x)	$3x - 2$	Output (y)
3	$3(3) - 2$	7
6	$3(6) - 2$	16
8	$3(8) - 2$	22

2. $x + 4$

3. $2x + 3$

4. $a > 14$;



5. $s \leq 8$;



6. $a < 6$;



7. $c \geq 22$;



8. $m \leq 6$;



9. $h > 45$;



10. $s + 439 \leq 1,250$; $s \leq 811$

11. multiply the position number by 9; $9n$

12. $y = 5x$

13. $y = 7x + 2$

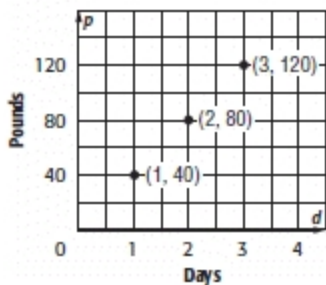
14. $p = 40d$

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15.

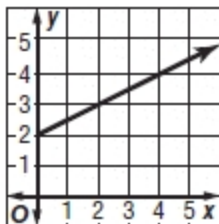
Days, d	1	2	3
Pounds, p	40	80	120

16.



17. The graph is a line because each day the amount increases by 40.

18.



19.

