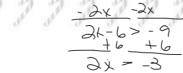


1. Draw a graph shows the solutions of 4x - 6 > 2x - 9?





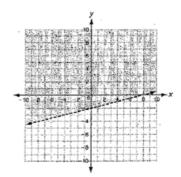
2. A manager said that the per item profit should be no less than \$14. Draw a graph that shows the acceptable profits?



3. Which inequality is represented by the graph below?

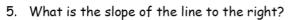
$$x \le \frac{1}{4}x - 2$$

d.
$$y > 4x - 2$$

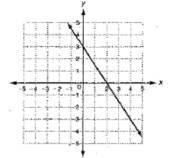




c.
$$\frac{1}{4}$$
, $\frac{1}{2}$, $\frac{3}{4}$, 1, ... d. -2 , 4, -6, 8, ...



$$-\frac{3}{2}$$



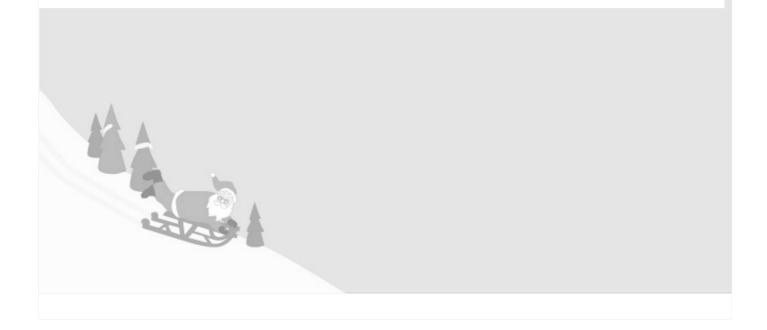
6. What is the slope of the line containing the ordered pair (2,3) and (-4,0)?

$$m = \frac{3-0}{2-4} = \frac{3}{6} = \frac{1}{2}$$

7. The table shows a relationship between how large a mother mammal is and how long she carries a baby before birth.

Animal Weight (kg)	730	600	15	35	1
Gestation Period (days)	284	270	150	148	33

Write an equation that could represent a line of best fit for this data?















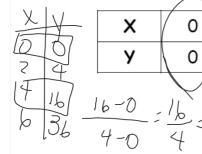






- 8. Write a function that describes the transformation in terms of f(x)? Horizontal translation 3 units right.
- 9. How would you write the transformation from its parent equation of 5f(x)?

10. Which is the average rate of change over the interval [0,4]?



11. Solve
$$wx + 4z = 3$$
 for z . $z = 3 - wx$

12. Which relation is NOT a function?

13. Which is the average rate of change over the interval [0,10] for the equation f(x) = 15x + 13?





Use the conversions in the table below to answer the questions:

Length	Volume	Mass	
1 inch = 2.54 cm	1 quart = 0.9463 L	1 ounce = 28.35 g	
5280 feet = 1 mile	4 quarts = 1 gallon	1 pound = 0.454 Kg	
1 yard = 3 feet = 36 inches	32 ounces = 1 quart	16 ounces = 1 pound	

14. A mass of 0.45 ounces is equal to how many grams?

15. 4.00 gallons is equal to how many liters?

16. A cell phone company charg	es a monthly fee of \$40 and an additional \$0.10 for each text
message sent. Write an equatio	n shows the relationship between the monthly bill (m) and the number
of text messages sent (t)?	y=40+.10x

17. Describe the the expression x - .20(x) + 10? in words.

18. Given the function,
$$f(x) = 3x + 7$$
 and a domain of $\{1, 2, 3, 4\}$, what is the range?

 $y = 3(1) + 7 = 10$
 $y = 3(2) + 7 = 13$
 $y = 3(3) + 7 = 16$
 $y = 3(4) + 7 = 19$

19. Write equation represented in the table?

2	0-17	. 3	_2
	0-1	_ ~	7)
g=mx+b	`		
y=-3x+20			
J			

×	У	
0	20	
1	17	
2	14	

20. Write the recursive and explicit form for the sequence 54, 18, 6, 2,...?

21. Write the explicit form for the sequence 8, 12, 16, 20, ...?

$$d = 4 \qquad p = |ST-c|$$

$$C_1 = 8 \qquad = 8 - 4 = 4$$

$$C_1 = 4 \qquad P = |ST-c|$$

