

Parent note: This week, we will work on the review of the algebra unit in preparation for the assessment on Wednesday and Thursday. This is the review sheet that we will be working.

Algebra Review

$-7p + 2 = -40$

$2p + 5 = (-7)$

$-5(p + 3) = 35$

$-2 + \frac{p}{3} = 6$

$\frac{h}{-9} - 6 = -14$

$6x - 24 = 36$

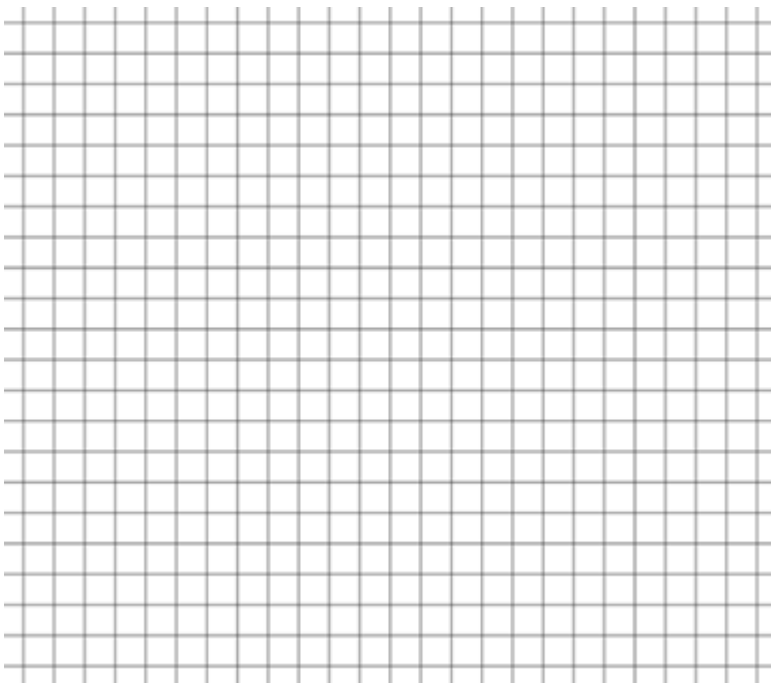
PR1

2. Use the equation $y = -3x + 4$ to complete the following:

a) Find the missing values in the table of values.

| x | y |
|----|---|
| -1 | |
| 0 | |
| 1 | |
| 2 | |
| 3 | |
| 4 | |

b) Construct a graph of this linear relationship.



3. Write the equation that represents the following:

“Pizza Buffet” charges \$2 for your beverage and \$3 each time you go to the buffet. What is the cost of a meal?

“Sam’s Decorating” charges \$600 to decorate a wedding hall plus \$12 for each table in hall that needs to be set. What is the cost for decorations?

Amanda’s Dance company donates \$1 for every ticket sold at her next recital to the flood. How much money will she donate?

Jane’s Mom will give her \$20 a week allowance plus \$2 each time she does the dishes. How much will Jane get each week?

- 4.** Use the equation $y = -2x + 2$
Find the value of y for the ordered pair $(11, y)$.

PR1

Find the value of x for the ordered pair $(x, -14)$

5. Which equation describes the relationship shown in this table?

| | | | | |
|---|---|---|----|----|
| x | 4 | 5 | 6 | 7 |
| Y | 7 | 9 | 11 | 13 |

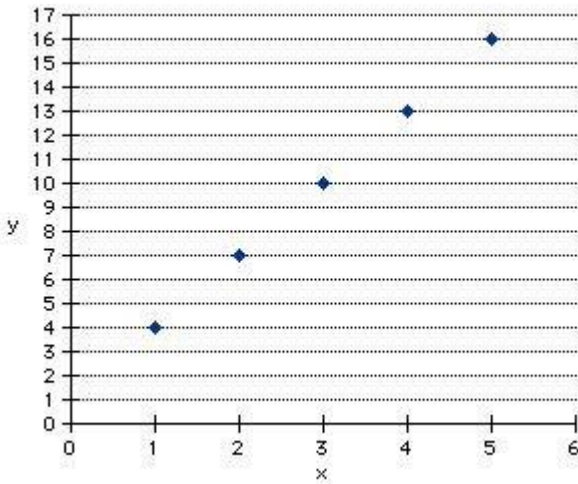
- a) $y = x + 3$ b) $y = x + 4$ c) $y = 3x - 5$ d) $y = 2x - 1$

6. 4. Find the missing value in the sets of ordered pairs below for this equation

$y = 2x - 4$ $(0, \underline{\quad})$ $(5, \underline{\quad})$ $(\underline{\quad}, 22)$ $(\underline{\quad}, 26)$

$Y = \frac{x}{2}$ $(6, \underline{\quad})$ $(8, \underline{\quad})$ $(\underline{\quad}, 5)$ $(12, \underline{\quad})$ $(22, \underline{\quad})$

7. This graph show a relationship between the variables x and y.



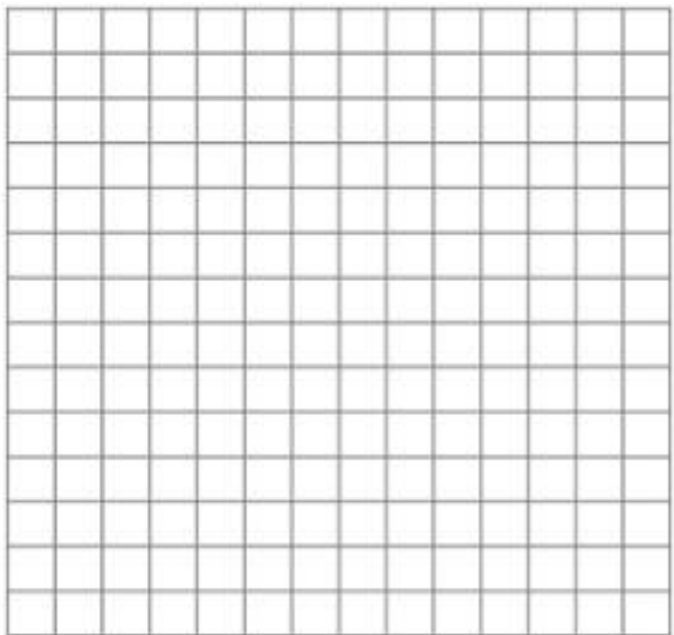
Which statement describes the relationship shown on this graph?

- a) y is always 3 less than x
- b) y is always twice x plus 3
- c) y is always 3 times x plus 1
- d) y is always 2 less than x

8. Complete the table of values below and plot on the graph.

$$y = -2x + 1$$

| x | Y |
|---|---|
| 0 | |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |



Describe the relationship.

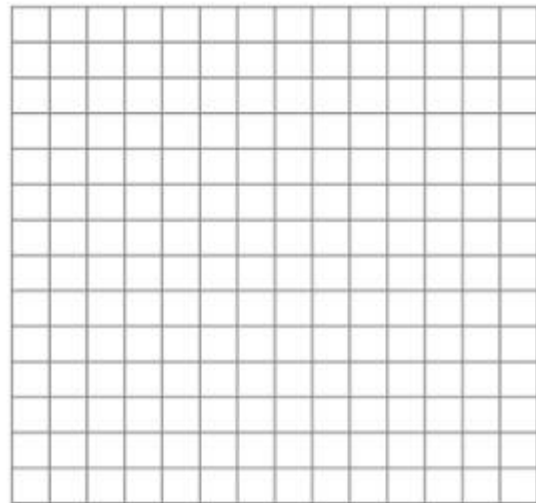
9) A daycare wants to rent the Centennial Skating Rink for its Easter party. The rink charges a flat rate of \$150 plus \$45 for each hour the children will be there.

a) What is the equation that represents the cost to rent the rink for “n” hours?

b) Create a table of values that gives the cost for 1,2,3,4 hours.



c) Construct a graph of this data. Label each axis and describe the relationship.



d) How much it will cost for 5 hours? _____ 6 hours? _____

e) If the daycare paid \$510 to rent the rink, how many hours did they spend at the rink? _____

Complete the table of values below.

a) Use the equation $y = 2x - 5$ to complete the table:

| | | | | | | |
|---|------|---|---|---|---|---|
| x | (-1) | 0 | 1 | 2 | 3 | 4 |
| y | | | | | | |

b) Find the value of y for the ordered pair: (20, y)