

Unit 1 Corrective Assignment

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Evaluate the expression.

1) m^3 when $m = \frac{1}{2}$

Find the unit rate in feet per second.

2) $\frac{120\text{YARDS}}{3\text{MINUTES}}$

Evaluate each expression.

3) $(1 + 5 + 5) \times 4$

4) $3 - 4 \div 4 + 3$

Evaluate each using the values given.

5) $y(x - (y - y))$; use $x = 5$, and $y = 6$

6) $mq \div 3 - 4$; use $m = 3$, and $q = 5$

Write each as an algebraic expression.

7) q increased by 12 is greater than 7

8) the quotient of n and 7 is greater than 25

Solve using mental math.

9) $-2 = n + 5$

Check to see if 20 is a solution.

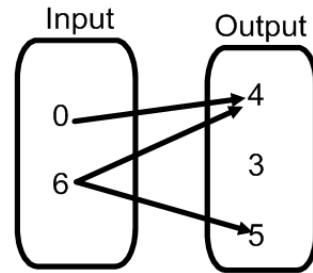
10) $-m + 5 \leq 12$

Directions: Tell whether each pairing is a function.

11)

Input	12	3	7	3
Output	5	12	0	4

12)



13) Make a table for the function.
function.

$$y = 2x - 4$$

Domain: -5, -3, 0, 2

14) Make a table for the

$$y = \frac{-2x-4}{2}$$

Domain: -4, -2, 0, 6

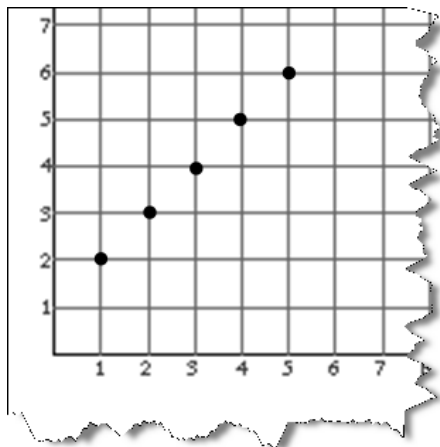
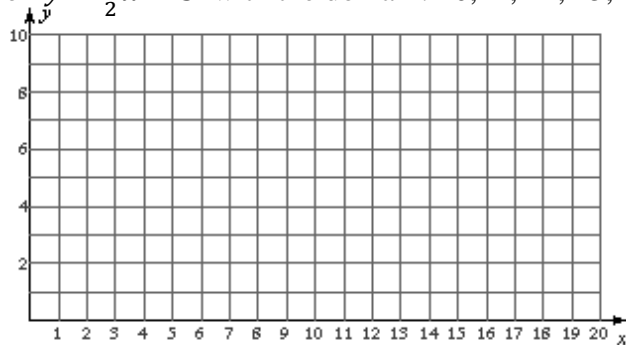
15) a. Identify the Domain and Range:

Input, x	1	2	3	4
Output, y	5	8	11	14

b. Make a rule.

16) Complete the table and graph the function $y = \frac{1}{2}x - 5$ with the domain: 10, 11, 12, 15, 20

x					
y					



4) Find the Domain and Range of the graph to the left.

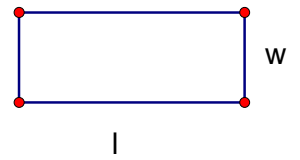
Domain:

Range:

Write a rule for the function represented by the graph at the left.

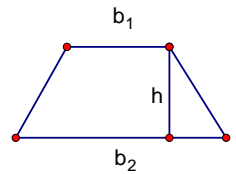
23) Find the perimeter of a rectangle when $l = 51.2$ and $w = 8.3$. Use the diagram to help.

$$\text{Perimeter} = 2(l + w)$$



24) Find the area of a trapezoid with $b_1 = 6$, $b_2 = 12$, $h = 14$. Use the diagram to help.

$$\text{Area of Trapezoid} = \frac{(b_1 + b_2)h}{2}$$



25) The table below shows the number of weeks in Algebra I class and the corresponding number of students failing Algebra each week.

Weeks, x	2	3	4	5	6
Failing students, y	35	29	23	17	11

a) Find the domain and range: domain:

range:

b) Write a rule for the number of students failing as a function of the number of weeks.

c) Predict how many students will be failing after 7 weeks.

d) Graph the function.

