

9. Determine the Range

Function	Domain	Range
y = 3x + 5	0, 1, 6, 7	
y = 6 - x	-2, -1, 0, 1	

10. Create an input-output table for this function: y = 2x + 4. Use a domain of -3, -1, 1, 3

х	У

3

5

7 9

-1 1

11. Graph the function in Questions 10.

12. From this set of numbers, which is not a rational number: 3, -8, $\sqrt{4}$, $\sqrt{2}$, .32665

13. Five skin divers each attempt to reach a deep reef in the Florida Keys. Their depths in feet below sea level were as follows: -28, -37, -18, -45, -62. What was the mean depth reached?

6

3

7

5 -3

-- 6-

-9 -7 -5 -3

- 14. Are these Equivalent Expressions? y = 7x - 22 -3(6 - 2x) - 4 + x = y
- 15. Combine the Like Terms to simplify this expression: y = 3x - 4 + 2x + 8
- 16. Translate to an algebraic equation: A bee colony produced 4.68 pounds of honey, but bears ate 1.98 pounds of it. How much honey remains?
- 17. Is this number rational: .23638749268832......
- 18. Is this number rational: 3.652458

19. The temperature was pretty cold last week in Deluth. Based upon this table, what was the mean minimum temperature?

Number of Days	1	3	3
Minimum Temperature	-3	-9	2



- 20. "x" is 25 less than 45. Write an equation that describes this situation, and solve for "x".
- 21. Jay's Banana Restaurant can purchase bananas for \$.25 each. If Jay spends
 \$43.50 for bananas, how many bananas does he purchase (b)?

Equation	
b =	

22.	Solve	for	х

2(x+3) = 4x	
2.5x - 3(x+1) = 12	
6x + 3 - 4x = 4x + 5	

Equation <u>x =</u>___

23. You have quarters and dimes that total \$2.55. The number of dimes is 8 more than the number of quarters. Write an equation that will allow you to determine both the number of dimes and the number of quarters.

Equation	dimes	quarters

- 24. You can get tickets for the league Championship Game from a ticket broker for \$45 per ticket, plus a handling charge of \$3 per ticket, and a processing fee of \$15 for the entire order. You pay \$399.00. How many tickets do you purchase?
- 25. Ronice's office recycled a total of 12 kilograms of paper over 3 weeks. How many weeks will it take Ronice's office to recycle a total of 20 kilograms of paper? Assume the relationship is directly proportional.

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- 26. Solve for d $C = \pi d$ C = 37.69' $\pi = 3.14$
- 27. After completing 6 laps of the race, the runner had finished 40% of the total race. How many laps comprised the total race?

Results			
%	?'s	Wrong	Concept
100%			
100%			
100%			
100%			
100%			
100%			
100%			
100%			
100%			
100%			
100%			
100%			
100%			
100%		0	