

ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra and Geometry Duration: 40 min	Class: 7 Worksheet Solutions 53	Date: 10.07.20 Full Marks: 15		
Choose the Correct options:	GRAPHS		N.	y
1. What algebraic equation shows	the relationship between the		-3	٩
independent and dependent varia	ables?		- 2	6
(a) $y = ax$			- t	3
(b) $y = x + 12$			•	٥
(c) $y = -3x$			1	-3
(d) y=5			2	-6
			3	-9

- 2. Which equation matches the table?
 - (a) y = x(b) y = 5x
 - (c) y = x 4
 - (d) y = x + 4
- 3. Which equation matches the table? (a) $T = T + \overline{T}$
 - (a) y = x + 5(b) y = 5x(c) y = x - 5
 - (c) y = x 3(d) x = y - 5

X	У
2	6
1	5
0	4
-1	3
-2	2

×	У
0	5
1	6
2	7
3	8
4	9

Minutes	Words
(m)	(w)
1	50
2	100
3	150

x	y
21	15
18	
15	9
13	7
11	5

4.	Nancy can type 50 words per minute. Look at the table
	below to write an equation that matches the data.

- (a) m=50 + w
- (b) w= 50m
- (c) w = 50 + m
- (d) m = 50 w
- 5. y = x 6
 - What is the missing number?
 - (a) 12
 - (b) 10
 - (c) 14
 - (d) 13

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6. Choose the best explanation

- (a) Taylor can write 6 words per minute
- (b) Taylor can write 25 words per minute
- (c) Taylor can write 50 words per minute
- (d) Taylor can write 150 words per minute



- 7. What is the rate of change (unit rate) for the following graph?
 - (a) 80
 - (b) 20
 - (c) 40
 - (d) 160



- 8. What is the constant of proportionality (in miles per hour) based on the table?
 - (a) 45
 - (b) 90
 - (c) 135
 - (d) 2

Time (hours)	Distance (miles)
2	90
3	135
5	225
6	270

- 9. Is the graph proportional or non proportional?
 - (a) proportional
 - (b) non proportional
 - (c) both
 - (d) neither



10. Is the graph proportional or non proportional?

(a) proportional

- (b) non proportional
- (c) both
- (d) neither



- 11. What is the constant of Proportionality for this table?
 - (a) 1/9
 - (b) 9
 - (c) 8
- 12. What is the function of the table?
 - (a) y=3x+1
 - (b) y=4x-2
 - (c) y=x+1
 - (d) y=x+7

Hours	Money
0	\$0
1	\$9
2	\$18
3	\$27
4	\$36



- 13. What is the equation of the line?
 - (a) y = 20x(b) y = x + 20
 - (c) y = 2x
 - (d) y = x + 2



- 14. You earn \$18 for every hour you work. Which equation represents this function? (a) y=(18/2)x + 0
 - (b) y = 18x
 - (c) y = 2x + 18
 - (d) y = 18x + 2
- 15. Bob has \$150 in his savings account and saves \$40 per month.
 - (a) 150 + 40
 - (b) 40x + 150
 - (c) 150x + 40
 - (d) 40x + 15