Lesson 3 Assignment

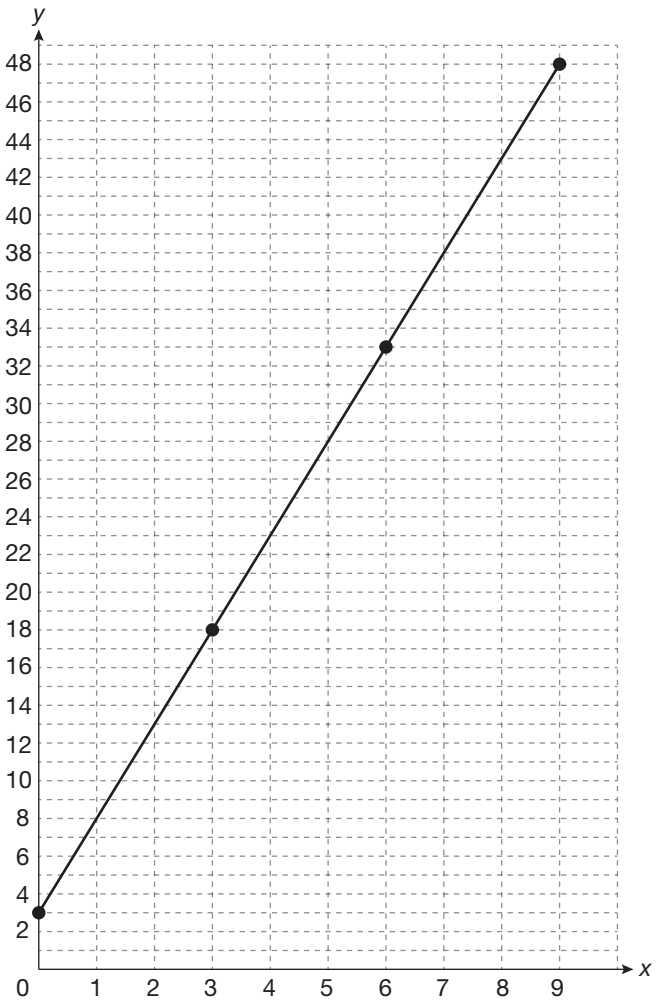
Partial Variation – Part B

Work slowly and carefully. If you are having difficulty, go back and review the appropriate *Lesson*.

For full marks, show all calculations, steps, and/or explain your answers.

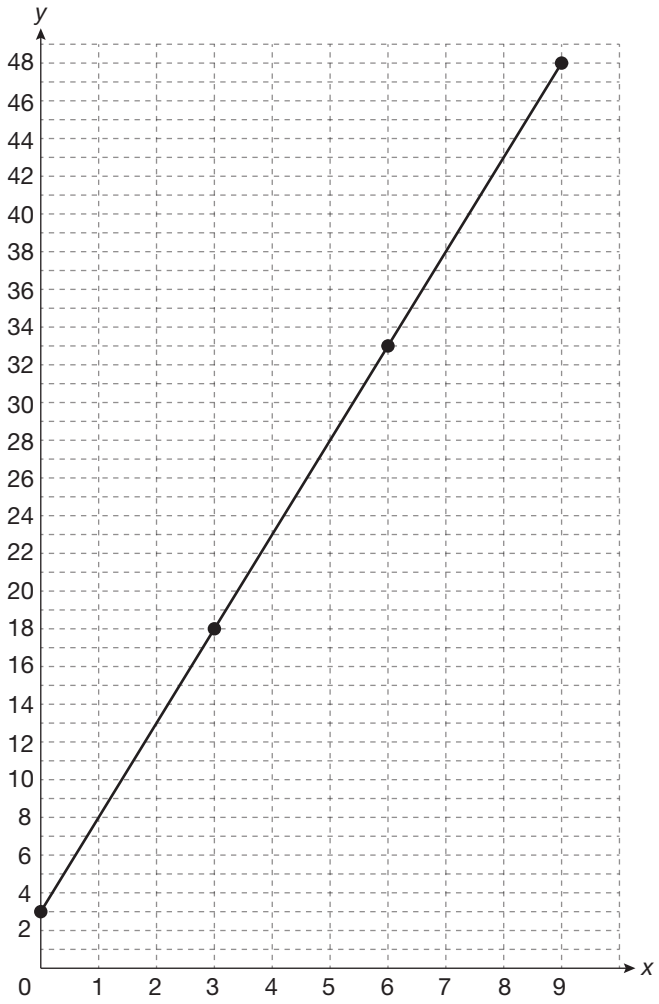
Total marks: 21

(1) _____ 11. Find the slope, m, of the line on the graph.



A. 0
B. 3
C. 5
D. 15

(1) _____ 12. Find the y-intercept, b, of the line on the graph.



A. 0
B. 3
C. 5
D. 15

13. Given the equation $y = 2x + 1$, complete the following.

(2) a. Create a table of values.

x	y

(2) b. Draw the graph.

14. Determine if the table of values represents direct variation, partial variation, or neither. If the table of values represents direct variation or partial variation, state the slope of the line. If not, explain why it does not represent direct variation or partial variation.

(2) a.

x	y
0	0
5	6
10	12
15	18

(2) b.

x	y
0	0
1	2
2	5
3	9

(2) c.

x	y
0	10
20	150
40	290
60	430

15. For each table of values given, complete the following.
    - Find the slope.
    - Find the y-intercept.
    - Determine the equation.

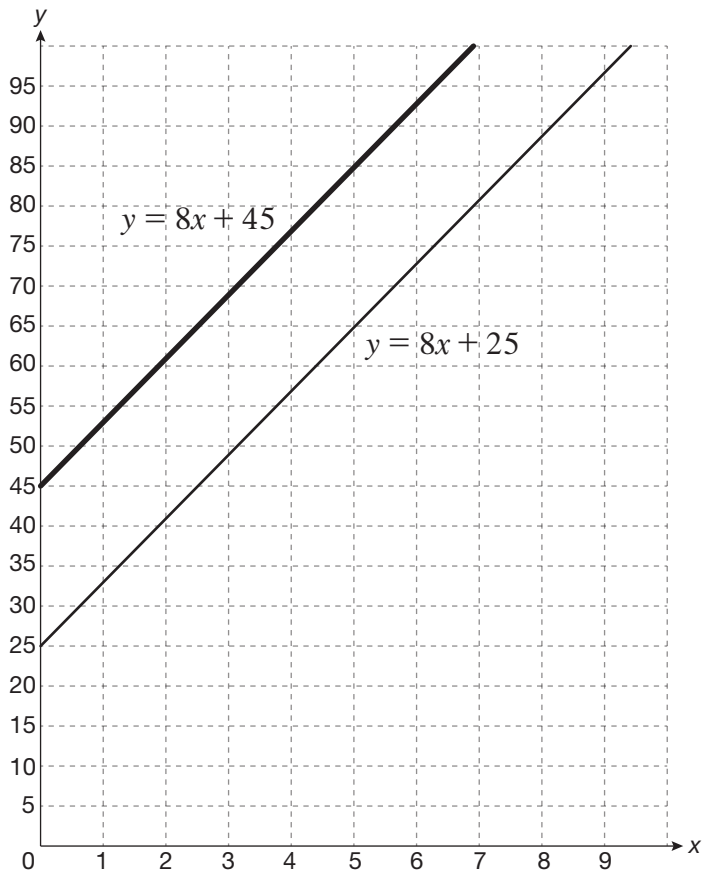
(3) a.

x	y
0	0
12	3
24	6
36	9

(3) b.

x	y
0	8
2	14
4	22
6	30

16. Compare the two equations.



Equation 1: $y = 8x + 25$
Equation 2: $y = 8x + 45$

(1) a. How are the two lines similar?

(1) b. How are the two equations different?

(1) c. How does the graph of equation 1 compare to equation 2?