

## Unit 6 Review: Linear Models and Tables Assessment – Answer KEY

1. C
2. D The function used is  $y = -2x + 4$ .
3. C
4. B Extend the line to make your estimate.
5. A
6. B
7. A
8. C The function used is  $y = 2x + 2$ .
9. A
10. B The key to choosing the correct line here is noticing the y-intercept. It is 35. The only equation with the y-intercept (b) equal to 35 is choice B.
11. C I believe it is C if you let the temperature be the x-axis and the number of hot chocolates be the y-axis and assume that the warmer the temperature, the fewer hot chocolates are sold.
12. B
13. A
15. G Yes, this is the same question as #11. ☺
16. Part A – After 5 minutes: 3550 ft.  
After 30 minutes: 16,050 ft.

Part B

x	y
0	1050
5	3550
8	5050
10	6050
30	16,050

Part C (0, 1050), (5, 3550), (8, 5050), etc.

Part D – (0, 1050) is the y-intercept. It represents the starting point, the altitude of the airplane before take-off.

Part E – The slope of the equation is 500. It represents how far the airplane rises in altitude for every minute after take-off.

17.

	Male	Female	Total
Enrolled In College	48	124	172
Not enrolled In College	34	48	82
Total	82	172	254

18. D The boy started out with 20 pounds of food – 20 is the given amount to start with, our  $b$  in  $y=mx+b$ .
19. B If you substitute your numbers from the chart into the equation (putting the  $t$ -value where it belongs and the  $p$ -value where it belongs, you'll see that this equation is the one that works.