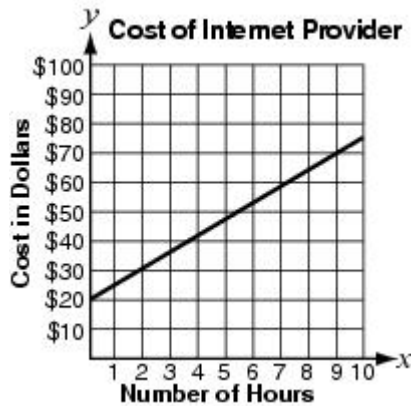


Directions: Please choose the best answer choice for each of the following questions.

1. If x represents the number of hours that Jason uses the Internet and y represents the cost that he is charged by his Internet provider, which function best represents this situation?



- A. $y = \$20x$
- B. $y = \$5x$
- C. $y = \$20x + \5
- D. $y = \$5x + \20

2. This table shows the student populations at Stonington High School from 1994 to 2004.

Stonington High School

Years after 1994	Population
0	889
2	917
4	954
6	968
8	1012
10	1045

Assuming the trend in this table continues, which equation could be used to estimate the student population n years after 1994?

- A. $y = 5n + 890$
 - B. $y = 15n + 890$
 - C. $y = 30n + 890$
 - D. $y = 50n + 890$
3. Chang and his family raise rabbits. At the end of each year, Chang records the number of rabbits the family has. The table shows this information.

Year	Number of Rabbits
1	35
2	58
3	81
4	104

Which equation relates the number of rabbits (r) to the year (y)?

- A. $r = 12y + 23$
- B. $r = 23y + 12$
- C. $y = 12r + 23$
- D. $y = 23r + 12$

Go on to the next page »

4. The table shows the number of hours Tim and Stephen have practiced their piano lessons at the end of each week. Let T represent the number of hours Tim practices and let S represent the number of hours Stephen practices. If they both continue to practice at the same rate, which equation could be used to correctly predict the number of hours Stephen will have practiced his piano lessons when Tim has practiced for 11 hours?

Week	Tim	Stephen
1	1	5
2	3	11
3	5	17
4	7	23

- A. $S = 29$
- B. $S = 3T + 2$
- C. $S = 2T + 9$
- D. $S = 2T + 11$

5. The table below shows how old Marsha and Tony were in several different years. If T represents Tony's age and M represents Marsha's age, which equation could be used to correctly predict Tony's age when Marsha is 20 years old?

Year	Marsha	Tony
2000	6	10
2002	8	12
2004	10	14
2006	12	16

- A. $T = 20 - M$
B. $T = M + 4$
C. $T + M = 4$
D. $T + 16 = 20M$

Stop! You have finished this exam.