

CHAPTER 1 **Quiz**
Section B

Select the best answer.

1. What is the range of the relation shown in the table?

No. of Letters in the Names of Colors					
Color	blue	red	yellow	green	orange
No.	4	3	6	5	6

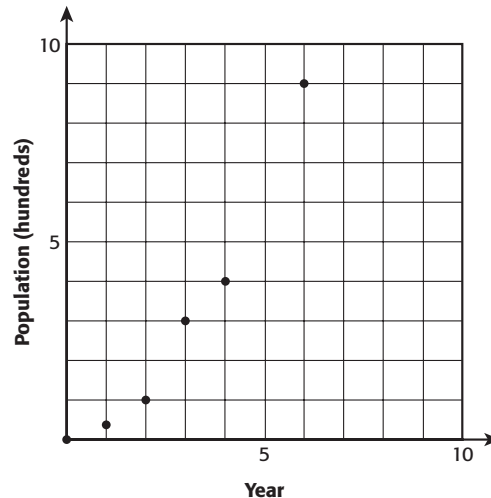
- A {blue, 4}
 B {blue, red, yellow, green, orange}
 C {3, 4, 5, 6}
 D natural numbers
2. Which of the following relations is a function?
 F From student to subjects studied in school this year
 G From student to colors of shirts owned
 H From student to eye color
 J From student to names of relatives
3. Evaluate $f(x) = 4 - 5x$ for $f(2)$.
 A -10 C 6
 B -6 D 24
4. Which function N represents the number of miles traveled after averaging 200 miles a day for d days?
 F $N(d) = \frac{d}{200}$
 G $N(d) = 200 + d$
 H $N(d) = \frac{200}{d}$
 J $N(d) = 200 \cdot d$

5. The points $\{(-6, -2), (0, 4), (3, 3)\}$ are on the graph of function f . What are the coordinates of these three points after a horizontal stretch by a factor of 3?
 A $\{(-15, -2), (0, 4), (9, 3)\}$
 B $\{(-6, -6), (0, 12), (3, 9)\}$
 C $\{(-3, -2), (3, 4), (6, 3)\}$
 D $\{(-2, -2), (0, 4), (1, 3)\}$

6. Which parent function best approximates this data set?

x	-3	-1	0	2	4
y	$-\frac{27}{2}$	$\frac{1}{2}$	0	4	32

- F $f(x) = x$ H $f(x) = x^3$
 G $f(x) = x^2$ J $f(x) = c$
7. Data gathered about the growth of a population is represented in the graph. Use the parent function that best approximates the data to approximate the population in year 5.



- A About 6.25 C About 750
 B About 625 D About 6250

Answer Key continued

11. C

12. H

Section Quiz: Section B

1. C

2. H

3. B

4. J

5. A

6. H

7. B

Chapter Test Form A

1. A

2. B

3. C

4. A

5. B

6. A

7. C

8. A

9. A

10. B

11. B

12. A

13. B

14. B

15. A

16. B

17. A

18. C

19. B

20. C

Chapter Test Form B

1. C

2. G

3. A

4. H

5. C

6. J

7. D

8. F

9. C

10. G

11. B

12. G

13. A

14. J

15. C

16. G

17. D

18. J

19. A

20. H

Chapter Test Form C

1. B

2. F

3. B

4. J

5. C

6. F

7. D

8. G

9. D

10. H