

Chapter Test

Form A

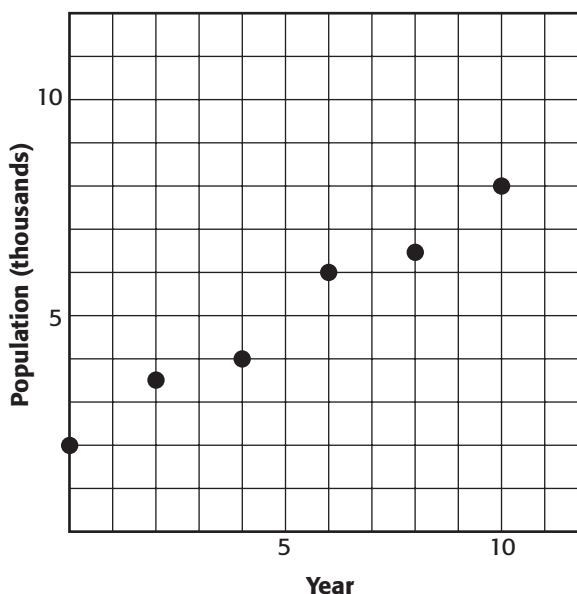
Select the best answer.

- Order the numbers 0, -11, 0.1, 0.03 from least to greatest.
A -11, 0, 0.03, 0.1
B -11, 0, 0.1, 0.03
C 0, 0.03, 0.1, -11
- Use interval notation to represent the set of all real numbers greater than 2 and less than 8.
A (8, 2)
B (2, 8)
- What is the property demonstrated by $6 + 9 = 9 + 6$?
A Distributive Property
B Additive Inverse Property
C Commutative Property
- Use mental math to find the 10% tax on a \$3.70 purchase.
A \$0.37
B \$37.00
- Estimate $\sqrt{37}$ to the nearest integer.
A 5
B 6
C 7
- Simplify $\frac{1}{\sqrt{5}}$.
A $\frac{\sqrt{5}}{5}$
B $\frac{5}{\sqrt{5}}$
- Simplify $4\sqrt{7} + \sqrt{7}$.
A $4\sqrt{14}$
B $5\sqrt{7}$
C 35
- Evaluate $3x - y$ for $x = 4$ and $y = 7$.
A 5
B 17
- Simplify $5x + 2x$.
A $7x$
B 7
C $7x^2$
- Evaluate 5^0 .
A 0
B 1
- Simplify $(x^3)^2$.
A x^5
B x^6
C x^9
- Evaluate $\frac{3 \times 10^8}{6 \times 10^3}$ and write the answer using scientific notation.
A 5×10^4
B 0.5×10^5
- What is the range of the set of ordered pairs $\{(1, 6), (2, 7), (3, 6), (4, 4), (5, 4)\}$?
A {1, 2, 3, 4, 5}
B {4, 6, 7}
C {6, 7, 6, 4, 4}

CHAPTER 1 **Chapter Test**
Form A continued

14. The set of output values for a relation is called the
A domain.
B range.
15. Evaluate $f(x) = 6x + 2$ for $f(0)$.
A 2
B 6
16. Which function's output is 3 times the input plus 7?
A $f(x) = (3x + 7)(x)$
B $f(x) = (3x + 7)$
C $f(x) = (7 + 3x)3$
17. What are the coordinates of the point $(1, 2)$ after a translation (slide) right 9 units and up 3 units?
A $(10, 5)$
B $(10, -1)$
C $(4, 11)$
18. The graph of a function passes through the points $(2, 4)$ and $(6, -5)$. What are the coordinates of these points after the function has been reflected (flipped) across the x -axis?
A $(-2, -4)$ and $(-6, 5)$
B $(-2, -4)$ and $(-6, -5)$
C $(2, -4)$ and $(6, 5)$
19. What is the parent function for $f(x) = (x + 7)^2$?
A $f(x) = x$
B $f(x) = x^2$

20. Data gathered about the growth of a population is represented in the graph. What parent function best approximates the data?



- A** $f(x) = c$
B $f(x) = x^2$
C $f(x) = x$

Answer Key Algebra 2

CHAPTER 1

Chapter Test Form A: Multiple Choice

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|-------|-------|
| 1. A | 11. B |
| 2. B | 12. A |
| 3. C | 13. B |
| 4. A | 14. B |
| 5. B | 15. A |
| 6. A | 16. B |
| 7. B | 17. A |
| 8. A | 18. C |
| 9. A | 19. B |
| 10. B | 20. C |