Name _____ Date _____ Class _____

Chapter Test
Form A

Select the best answer.

1. Ann opened a bank account at the beginning of the year. She deposited the same amount once a month for 12 months. At the end of the 12 months, there was $1,860 in the account. How much did she deposit each month?

   A $77.50

   B $155.00

   C $186.00

2. Solve $4x + 17 = 8x + 5$.

   A $x = 3$

   B $x = 5.5$

3. Solve $11x - 4 < 5x + 14$.

   A $x < \dfrac{1}{3}$

   B $x < 3$

   C $x > 3$

4. Solve $\dfrac{4}{5} = \dfrac{x}{35}$.

   A $x = 28$

   B $x = 30$

5. During a 17-game season, a football team scored 408 points. How many points per game did they score?

   A 2.4

   B 24

   C 6,936

6. Find x, the length of side $\overline{DF}$.
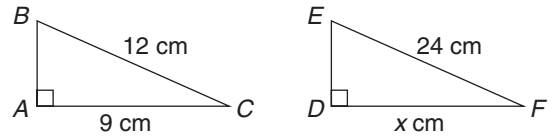
   $\triangle ABC \approx \triangle DEF$

   A 4.5 cm

   B 18 cm

7. A line passes through $(2, 8)$ and $(4, 3)$. What is the slope of the line?

   A $-\dfrac{2}{5}$

   B $-\dfrac{5}{2}$

   C $\dfrac{5}{2}$

8. Which set of points could represent a linear function?

   A $\{(1, 2), (2, 4), (3, 6), (4, 8)\}$

   B $\{(1, 2), (2, 4), (3, 8), (4, 16)\}$

9. What is $x + 2y = 10$ in slope-intercept form?

   A $x = -2y - 10$

   B $y = -\dfrac{1}{2}x + 5$

   C $2y = -x + 10$

10. What is the y-intercept of the line $2x + 3y = 12$?

    A $y = 4$

    B $y = 6$

CHAPTER	**Chapter Test**
2	**Form A** continued

11. Which is the equation of the line that contains the points in the table?

x	1	3	6
y	3	7	13

A $y = x + 2$

B $y = 2x + 1$

C $y = 3x - 2$

12. Which is the equation of the line parallel to $y = 5x + 7$ with a y-intercept of 3?

A $y = 3x + 7$

B $y = 5x + 3$

13. Grapefruit costs $3 per pound and oranges cost $4 per pound. If a shopper buys x pounds of grapefruit and y pounds of oranges, which equation represents the pounds of grapefruit and oranges that can be bought for $24?

A $x + y = 24$

B $4x + 3y = 24$

C $3x + 4y = 24$

14. If $g(x)$ is a vertical translation 5 units down of $f(x) = 4x + 3$, what is the rule for $g(x)$?

A $g(x) = -x + 3$

B $g(x) = 4x - 2$

15. If $g(x)$ is a vertical stretch by a factor of 3 of $f(x) = 3x + 1$, what is the rule for $g(x)$?

A $g(x) = 3x + 3$

B $g(x) = 9x + 1$

C $g(x) = 9x + 3$

16. Which best expresses the correlation among the data points below?

x	1	3	4	5	6
y	14	10	11	9	4

A positive

B negative

17. Solve $-5x \le 10$ **or** $3x + 2 < 14$.

A $\{x \mid x < 4\}$

B $\{x \mid -2 \le x < 4\}$

C all real numbers

18. Solve $|x| - 8 = 12$.

A $x = -4$ **or** $x = 20$

B $x = -20$ **or** $x = 20$

19. Solve $|2x - 3| \le 13$.

A $\{x \mid x \le 8\}$

B $\{x \mid x \ge -5\}$

C $\{x \mid -5 \le x \le 8\}$

20. What is the vertex of $f(x) = |x| + 6$?

A $(0, 6)$

B $(-6, 0)$

21. If $g(x)$ is a reflection across the x-axis of $f(x) = |x| + 3$, what is the rule for $g(x)$?

A $g(x) = -|x| + 3$

B $g(x) = 3 - |x|$

C $g(x) = -|x| - 3$

Holt Algebra 2

Answer Key Algebra 2

CHAPTER 2

Chapter Test Form A: Multiple Choice

1. B		**12.** B	
2. A		**13.** C	
3. B		**14.** B	
4. A		**15.** C	
5. B		**16.** B	
6. B		**17.** C	
7. B		**18.** B	
8. A		**19.** C	
9. B		**20.** A	
10. A		**21.** C	
11. B			