Name _____ Date _____ Class _____

Select the best answer.

1. Jeff had $2250 in his bank account at the beginning of the year. He deposited the same amount once a month for 6 months. At the end of the 6 months there was $3060 in the account. How much did he deposit each month?

   A $135.00   **C** $885.00

   B $810.00

2. Solve $2x - 8 = 4 + 6x - 7 - 4x$.

   F $x = 1$ **H** no solution

   G all real numbers

3. Solve $8x - 7 \leq 4x + 9$.

   A $x \leq -4$ **C** $x \leq 4$

   B $x < 4$

4. Solve $\dfrac{30}{6} = \dfrac{45}{x}$.

   F $x = 8$ **H** $x = 225$

   G $x = 9$

5. During an 82-game season, a basketball player scored 1230 points. How many points per game did the player score?

   A 0.067   **C** 15

   B 2.8

6. Right triangles *ABC* and *DEF* are similar. The hypotenuse of $\triangle ABC$ measures 28 cm and the hypotenuse of $\triangle DEF$ measures 7 cm. One leg of $\triangle ABC$ measures 16 cm. What does the corresponding leg of $\triangle DEF$ measure?

   F 1 cm   **H** 12 cm

   G 4 cm

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

   A $\{(2, 1), (5, 3), (6, 7), (7, 11)\}$

   B $\{(2, -1), (5, 3), (8, 7), (11, 11)\}$

   C $\{(2, -1), (5, 5), (8, 7), (11, 11)\}$

8. A line has slope $-\dfrac{7}{5}$ and passes through $(2, -6)$. Which of these points is also on the line?

   F $(-7, 5)$ **H** $(9, -11)$

   G $(7, -13)$

9. What is the *x*-intercept of the line $8x + 4y = -32$?

   A $x = -8$ **C** $x = -\dfrac{1}{2}$

   B $x = -4$

10. What is $8x - 5y = 15$ in slope-intercept form?

    F $x = \dfrac{5}{8}y + \dfrac{15}{8}$ **H** $y = \dfrac{8}{5}x + 3$

    G $y = \dfrac{8}{5}x - 3$

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

x	–8	2	6
y	–16	–1	5

    A $y = \dfrac{2}{3}x + 1$ **C** $y = \dfrac{3}{2}x + 1$

    B $y = \dfrac{3}{2}x - 4$

12. Which is the equation of the line perpendicular to $y = 6x - 7$ and passing through $(12, 4)$?

    F $y = -6x + 36$ **H** $y = 6x - 12$

    G $y = -\dfrac{1}{6}x + 6$

13. Chicken costs $4 per pound and beef costs $5 per pound. If a shopper buys 3 pounds of chicken, how many pounds of beef can she buy and still spend less than $36?

    A between 0 and 4.8 pounds

    B greater than 4.8 pounds

    C between 0 and 5.25 pounds

Holt Algebra 2

Answer Key Algebra 2

CHAPTER 2

Section Quiz Lessons 2-1 Through 2-5

1. A
2. H
3. C
4. G
5. C
6. G
7. B
8. G
9. B
10. G
11. B
12. G
13. A