MIXED TAKS PRACTICE

7. What are the x-intercepts of the graph of the equation $y = 2x^2 - 13x + 20$? *TAKS Obj. 5*

A $x = -2, x = -5$

B $x = -\frac{5}{2}, x = -4$

C $x = \frac{2}{5}, x = 4$

D $x = \frac{5}{2}, x = 4$

8. The number of students at Lakeview High School is 20 less than twice the number of students at Riverside High School. If x represents the number of students at Riverside High School, which expression can be used to determine the number of students at Lakeview High School? *TAKS Obj. 2*

F $2(x - 20)$

G $2x - 20$

H $\frac{x - 20}{2}$

J $20 - 2x$

9. What is the slope of the line identified by $-5y = 4(x + 1)$? *TAKS Obj. 3*

A -5

B $-\frac{4}{5}$

C $\frac{4}{5}$

D 4

10. Alicia wanted to find 3 consecutive even numbers that add up to 72. She wrote the equation $n + (n + 2) + (n + 4) = 72$. What does the variable n represent in the equation? *TAKS Obj. 10*

F The least of the 3 even numbers

G The middle of the 3 even numbers

H The greatest of the 3 even numbers

J The difference between the greatest and least of the 3 even numbers

11. Val earns a 5% commission on his total sales. Which statement best represents the functional relationship between the commission Val is paid and his total sales? *TAKS Obj. 1*

A Val's total sales are dependent on the commission he is paid.

B The commission Val is paid is dependent on his total sales.

C The commission Val is paid is independent of his total sales.

D The relationship cannot be determined.

12. Which equation best represents a line parallel to the line with the equation $y = -\frac{2}{3}x + 2$? *TAKS Obj. 7*

F $2x + 3y = -9$

G $2x - 3y = 4$

H $3x - 2y = 10$

J $3x + 2y = 3$

13. Out of 125 people surveyed randomly, 75 people support spending money to improve a community park. About how many people would support spending money if 800 people were surveyed? *TAKS Obj. 9*

A 320

B 395

C 480

D 533

14. **GRIDDED ANSWER** A driver's education program consists of a total of 46 hours of classroom instruction, driving, and observation. A student must spend 3 times as much time in the classroom as driving, and 4 hours longer driving than observing. How many hours does a student spend driving? *TAKS Obj. 10*

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.