MIXED TAKS PRACTICE

9. When clothing is placed on the clearance rack at a clothing store, its price is decreased by 10% each week until it sells. The price of a shirt is $28 when it is placed on the clearance rack. After how many weeks will the shirt cost about $20? *TAKS Obj. 10*

A 2
B 3
C 4
D 5

10. Which function includes the data set {(20, 105), (25, 130), (30, 155)}? *TAKS Obj. 3*

F $y = 4x + 25$
G $y = 5x + 5$
H $y = 6x - 15$
J $y = 20x + 5$

11. Simplify the expression $5 - 2(1 - 3x)$. *TAKS Obj. 2*

A $3 - 6x$
B $3 - 3x$
C $3 + 3x$
D $3 + 6x$

12. Brent wants to write an expression that will always produce an odd integer. Which of the following will always produce an odd integer for any given integer, n? *TAKS Obj. 2*

F $-n + 5$
G $2n - 1$
H $3n - 1$
J n^2

13. It costs $35 to rent a canoe, plus $6 for each hour you use the canoe. If you have $60, for how many hours can you rent the canoe? *TAKS Obj. 4*

A 3 h
B 4 h
C 5 h
D 6 h

14. Which equation could be used to generate this table of values? *TAKS Obj. 1*

F $y = -x + 1$
G $y = -x - 1$
H $y = x + 17$
J $y = \frac{x}{2} + 13$

x	−8	−5	2	5
y	9	6	−1	−4

15. The domain of the function $y = 5x + 5$ is 3, 4, 5, and 6. Which of the following is the range of the function? *TAKS Obj. 2*

A 15, 20, 25, and 30
B 20, 23, 26, and 29
C 20, 25, 30, and 35
D 25, 29, 33, and 37

16. A circle and a square both have an area of 1 square foot. If the radius of the circle is doubled and the side length of the square is doubled, which figure will have the greater area? *TAKS Obj. 8*

F The circle
G The square
H The two areas will be equal.
J The areas cannot be determined.

17. If $(x, 3)$ is a solution to the equation $5x - 2y = 44$, what is the value of x? *TAKS Obj. 4*

A 6
B 9
C 10
D 12

18. **GRIDDED ANSWER** Hardwood flooring is being installed in a room with a rectangular floor that is 18 feet wide and 22 feet long. The flooring costs $2.50 per square foot. What is the cost, in dollars, of the flooring? *TAKS Obj. 7*

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