## MIXED TAKS PRACTICE

7. George analyzes the results of a survey identifying the number of minutes per day that people spend on the Internet. Which measure of data describes the most frequent amount of time spent on the Internet? TAKS Obj. 9

A Mean
B Median
C Mode
D Range
8. The vertices of a right triangle are ( 0,0 ), $(0,8)$, and $(8,0)$. What is the length of the hypotenuse? TAKS Obj. 7

F 8
G $8 \sqrt{2}$
H 64
J 128
9. What is the $y$-intercept of the line identified by $6 x-10 y=25$ ? TAKS Obj. 3

A $b=-\frac{5}{2}$
B $b=\frac{3}{5}$
C $b=\frac{25}{6}$
D $b=25$
10. Which equation best describes the relationship between $x$ and $y$ shown in the table? TAKS Obj. 1

| $x$ | $y$ |
| :---: | :---: |
| 1 | 7 |
| 2 | 12 |
| 3 | 17 |
| 5 | 27 |

F $y=5 x+2$
G $x=5 y+2$
H $y=5 x^{2}+2$
J $x=5 y^{2}+2$
11. What is the solution of the equation
$\frac{1}{3}(7 x+5)-2(x-3)=3 x-5$ ? TAKS Obj. 2
A $\frac{1}{4}$
B 1
C $\frac{19}{4}$
D No solution
12. During one week, Alicia earns $\$ 405$ working 45 hours at two jobs. Her retail job pays $\$ 9.50$ per hour and her babysitting job pays $\$ 8$ per hour. Which system of equations can be used to find $x$, the number of hours Alicia works at her retail job, and $y$, the number of hours she babysits? TAKS Obj. 4

F $x-y=45$
$8 x+9.5 y=405$
G $x-y=405$ $9.5 x+8 y=45$

H $x+y=45$ $8 x+9.5 y=405$

J $x+y=45$ $9.5 x+8 y=405$
13. Henry designs a box to contain 36 three-inch cubes. The cubes are stacked 3 high and 2 wide. What are the dimensions of the smallest possible box? TAKS Obj. 10

A 2 in. by 3 in. by 6 in.
B 4 in. by 6 in. by 12 in.
C 6 in. by 9 in. by 18 in.
D 8 in . by 10 in . by 20 in .
14. GRIDDED ANSWER At an awards banquet, 1 softball player and 2 soccer players are seated randomly together in a row. What is the probability that the 2 soccer players are not seated next to each other? Round your answer to the nearest hundredth. TAKS Obj. 9

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

