## MIXED TAKS PRACTICE

4. The histogram below represents the ages of guests who recently stayed at a hotel. Which statement must be true based on the data? TAKS Obj. 9


F There were 40 guests who stayed at the hotel.

G The mean age was 32 .
H The median age was in the 20s.
J The guests were mainly children.
5. Which expression is equivalent to $\frac{x^{3} y^{2}+x y}{x^{2} y}$ ?
TAKS Obj. 5

A $x y+1$
B $x y+\frac{1}{x}$
C $\frac{x^{2} y+x}{x}$
D $\frac{x^{2} y^{2}+y}{y}$
6. Your friend is winning a game that uses 2 number cubes. The only way that you can win is if you roll doubles (the same number on each number cube) on each of the next 2 rolls. Find the probability that you roll doubles on each of the next 2 rolls. TAKS Obj. 9

F $\frac{1}{1296}$
G $\frac{1}{72}$
H $\frac{1}{36}$
J $\frac{1}{18}$
7. At a day camp, half of the campers swim in the morning, and $15 \%$ of the campers play softball in the afternoon. What is the probability that a camper selected at random swims in the morning and plays softball in the afternoon? TAKS Obj. 9

A $\frac{3}{40}$
B $\frac{1}{15}$
C $\frac{1}{30}$
D $\frac{1}{65}$
8. How would the graph of the function $y=2 x^{2}-1$ be affected if it were changed to $y=2 x^{2}-6$ ? TAKS Obj. 5

F The graph would shift 5 units down.
G The graph would shift 5 units to the right.
H The graph would shift 5 units to the left.
J Not here
9. Which line has a $y$-intercept of 3 and a slope of $-\frac{4}{5}$ ? TAKS Obj. 3.

A $y=3-\frac{4}{5} x$
B $y=3 x-\frac{4}{5}$
C $y=-\frac{4}{5}(x-3)$
D $y=3\left(x-\frac{4}{5}\right)$
10. GRIDDED ANSWER If $\triangle B C D$ is similar to $\triangle F E D$, what is the length of side DE? TAKS Obj. 8


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

