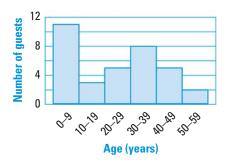


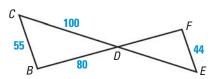
MIXED TAKS PRACTICE

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 $\frac{x^3y^2 + xy}{x^2y}$?
 - $\mathbf{A} \quad xy + 1$
 - **B** $xy + \frac{1}{x}$
 - c $\frac{x^2y+x}{x}$
 - $\mathbf{D} \quad \frac{x^2y^2 + y}{y}$
- 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
 - $\mathbf{F} = \frac{1}{1296}$
 - **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 $y = 2x^2 1$ be affected if it were changed to $y = 2x^2 6$? **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** $y = 3x \frac{4}{5}$
 - **C** $y = -\frac{4}{5}(x-3)$
 - **D** $y = 3(x \frac{4}{5})$
- **10. GRIDDED ANSWER** If $\triangle BCD$ is similar to $\triangle FED$, 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.