

Directions: Please choose the best answer choice for each of the following questions.

1. In a local high school, the ratio of freshmen to sophomores is 28 to 24 . There are 348 sophomores. Use the proportion $\frac{28}{24} = \frac{x}{348}$. How many freshmen are at the high school?
- A. 308 freshmen
B. 406 freshmen
C. 520 freshmen
D. 672 freshmen
2. Solve for x .
- $$\frac{6}{(x+3)} = \frac{x}{9}$$
- A. $x = -6$ or $x = -9$
B. $x = -6$ or $x = 9$
C. $x = 6$ or $x = -9$
D. $x = 6$ or $x = 9$
3. Angelica wanted to measure the height of the flagpole in front of her school. She measured its shadow to be 30 feet long. At the same time, her shadow was 4 feet 6 inches long. Angelica is 5 feet tall. What is the height of the flagpole?
- A. 33 feet 4 inches
B. 30 feet 6 inches
C. 29 feet 6 inches
D. 27 feet
4. At a high school football game, there are 18 fans of the home team for every 4 fans of the visiting team. If there are 405 home team fans at the game, how many visiting fans are at the game?
- A. 6 fans
B. 74 fans
C. 90 fans
D. 1,823 fans
5. The length to height ratio of a rectangular window is 5 inches to 4 inches. What is the height of this window if the length is 40 inches?
- A. 64 inches
B. 32 inches
C. 16 inches
D. 24 inches

Stop! You have finished this exam.