Sample Ouestions:

These questions could appear on either test. Answers follow the last question.

- 1. Which of the following numbers is smallest
- A. 2.53
- C. 10
- D. 2.305
- 2. The first-year class at Eastern State University has 2000 students. Eighty percent of these students are instate students and 40% of the in-state students are males. How many in-state males are there in the first-year class?
- A. 1600
- B. 400
- C 800
- D. 640
- E. 320
- 3. A string of decorative lights has 6 red lights for every 4 green lights. If the string contains 48 green lights, how many red lights does it contain?
- A. 12
- B. 32
- C. 72
- D. 48
- E. 54
- 4. Water is being added to a vat at such a rate that, D, the depth, in inches, of the water in the vat at time t, $D = \frac{2}{5}T + 4$. How deep is the water in the vat at time T = 8
- measured in minutes, is given by the formula minutes?

- 5. A bowl contains 8 apples, 10 oranges, and 12 pears. One piece of fruit is selected at random from this bowl. What is the probability that the piece of fruit selected is an orange?
- A. $\frac{1}{2}$
- B. 10

- 6. If 5x + 8 = 28 then x is equal to

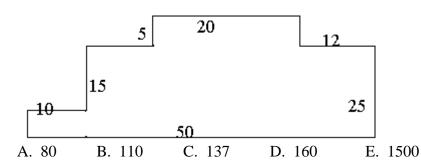
- B. 4 C. 20 D. 15
- E. 31

- $2\frac{1}{3} \times 3\frac{1}{2} =$

- $6\frac{1}{6}$ B. $5\frac{5}{6}$ C. $8\frac{1}{6}$ D. $6\frac{5}{6}$ E. $\frac{2}{3}$
- 8. $42 6^2/2 =$

- A. 3 B. 24 C. 338 D. 50 E. -24

9. What is the perimeter of the figure shown below.



- 10. A hotel charges \$120 per day for a room, plus the occupancy tax which is 15%. If these are all of the charges, what does this room cost for one day?
- A. \$18.00
- B. \$102.00
- C. \$135.00
- D. \$138.00
- E. \$180.00

The following questions would only appear on the test that required the use of a calculator.

- 11. Which of the following is the best approximation for $(1.06)^5$.
- A. 1.30
- B. 1.34
- C. 5.30
- D. 8.00
- E. 10.49
- 12. Which of the following is the best approximation for
- A. -.214
- B. 5.386
- C. 6.721
- D. 1.673
- E. 6.093
- 13. It takes 8 gallons of fuel to keep a motor running for 2.5 hours. If 20 gallons of fuel are available, how long can the motor be kept running?
- A. 64 hours
- B. 8 hours
- C. 6 hours 25 minutes D. 6 hours 15 minutes
- 14. A survey is sent to 650 people. 72% of these people returned the survey. How many people returned this survey?
- A. 468
- B. 72
- C. 578
- D. 47
- E. 903