Practice Problems 1

1. How many positive factors, including 1 and itself, does 72 have?

A 4   **B** 6   **C** 8   **D** 10   **E** 12

2. If the sides of a square are increased by 20%, by what percentage does the area of the square increase?

A 20%   **B** 30%   **C** 36%   **D** 40%   **E** 44%

3. Jeff answered all 25 questions on his chemistry test. For each right answer he got 4 points and for each wrong answer he lost 2 points. If he got a score of 70 points, how many questions did he get right?

A 18   **B** 19   **C** 20   **D** 21   **E** 22

4. A military clock has the numbers 1 through 24 evenly spaced around a circular face. What number is directly across from 19?

A 3 or 4   **B** 5 or 6   **C** 7 or 8   **D** 9 or 10   **E** 11 or 12

5. If a race began at 3:43 PM and ended at 5:27 PM, the race was half over at what time?

A 4:05   **B** 4:15   **C** 4:25   **D** 4:35   **E** 4:45

6. $\sqrt{\dfrac{1}{4}} =$

A 1/2   **B** 1/4   **C** 1/6   **D** 1/8   **E** 1/16

7. Which of the following fractions is equal to 1¼%?

A 5/4   **B** 5/40   **C** 1/80   **D** 4/500   **E** 4/50

8. Which of the following is closest to 0.25?

A 9/40   **B** 5/16   **C** 9/32   **D** 0.28   **E** 15/64

9. The advertisement read "Buy 3 tires at the regular price and get a fourth tire for only $3." Carol paid $240 for a set of four tires. What is the regular price of a tire?

A $64   **B** $70   **C** $74   **D** $79   **E** $80

10. Which of the following is closest to 19.9 times 199?

A 4000 **B** 3990 **C** 3980 **D** 3970 **E** 3960

11. The average of six numbers is 4. A seventh number is added and the new average is 5. What is the seventh number?

A 1 **B** 5 **C** 6 **D** 11 **E** 12

12. Suppose the Egyptian Pharaoh Khufu was born 4300 years ago. Approximately when did his twelfth birthday occur?

A 2300 BC **B** 2700 BC **C** 3000 BC **D** 4300 BC **E** 6300 BC

13. A clock loses 1 second every minute. It is set to the correct time at 10 AM on February 4. In which month is the next day on which it shows the correct time? (Note: A person can see whether it is AM or PM on this clock.)

A February **B** March **C** April **D** May **E** June

14. For approximately how many million seconds have you been alive?
A 4 **B** 40 **C** 400 **D** 4000 **E** 40000

15. I want to cut a piece of wood into five shorter pieces. The first cut takes 2 seconds and each subsequent cut takes twice as long as did the previous one. How many seconds will the job require?

A 8 **B** 12 **C** 114 **D** 30 **E** 62

E E C B D A C E D E D A C C D