

# Estimation Sequence Questions

1. Describe the following sequence in mathematical terms. 144, 72, 36, 18, 9

- A. Descending arithmetic sequence
- B. Ascending arithmetic sequence
- C. Descending geometric sequence
- D. Ascending geometric sequence
- E. Miscellaneous sequence

2. Which of the following is not a whole number followed by its square?

- A. 1, 1
- B. 6, 36
- C. 8, 64
- D. 10, 100
- E. 11, 144

3. A nurse has to record her temperatures in Celsius but her thermometer reads Fahrenheit. A patient's temperature is  $100.7^{\circ}$  F. What is the temperature in  $^{\circ}$ C?

- A.  $32^{\circ}$  C
- B.  $36.5^{\circ}$  C
- C.  $38.2^{\circ}$  C
- D.  $213.3^{\circ}$  C
- E.  $223.7^{\circ}$  C

4. Art realized that he had 2 more quarters than he had originally thought in his pocket. If all of the change in his pocket is quarters and it totals to \$8.75, how many quarters did he originally think were in his pocket?

- A. 27
- B. 29
- C. 31
- D. 33
- E. 35

5. There are 12 more apples than oranges in a basket of 36 apples and oranges. How many apples are in the basket?

- A. 12
- B. 15
- C. 24
- D. 28
- E. 36

6. Which of the following correctly identifies 4 consecutive odd integers where the sum of the middle two integers is equal to 24?

- A. 5, 7, 9, 11
- B. 7, 9, 11, 13
- C. 9, 11, 13, 15

- D. 11, 13, 15, 17
- E. 13, 15, 17, 19

7. What is the next number in the sequence? 6, 12, 24, 48, \_\_\_\_

- A. 72
- B. 96
- C. 108
- D. 112
- E. 124

8. Which of the following numbers could be described in the following way: an integer that is a natural, rational and whole number?

- A. 0
- B. 1
- C. 2.33
- D. -3
- E. none of the above

9. What is the next number in the following pattern? 1,  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ , \_\_\_\_

- A.  $\frac{1}{10}$
- B.  $\frac{1}{12}$
- C.  $\frac{1}{14}$
- D.  $\frac{1}{15}$
- E.  $\frac{1}{16}$

10. Of the following units, which would be most likely to measure the amount of sugar needed in a recipe for 2 dozen cookies

- A. degrees Celsius
- B. milliliters
- C. quarts
- D. kilograms
- E. cups