SANTA BARBARA CITY COLLEGE
TEST #1 – SAMPLE QUESTIONS

This test will assess your arithmetic and pre-algebra skills for placement into BASIC MATH (Math 1), PRE-ALGEBRA (Math 4), or ELEMENTARY ALGEBRA (Math 95). Eligibility for these courses will be based on scores achieved on the 45-minute, 50-item Algebra Readiness Test.

More extensive study packets are available in the Campus Bookstore or online at sbcc.edu/assessment.

PLEASE NOTE: CALCULATORS ARE NOT ALLOWED AT ASSESSMENT TESTING. IT IS BEST TO STUDY WITHOUT THE AID OF A CALCULATOR.

1. \(0.29\) can be written as:
   (A) \(\frac{29}{100}\)  
   (B) \(\frac{29}{10}\)  
   (C) \(\frac{9}{2}\)  
   (D) \(\frac{9}{10}\)

2. \(4 + 2 \times 6 = \)
   (A) 36  
   (B) 12  
   (C) 16  
   (D) 48

3. \(0.111 + 12.2 + 3.12 = \)
   (A) 15.431  
   (B) 16.43  
   (C) 435.2  
   (D) 43.511

4. \(\frac{6}{7} + \frac{2}{9} = \)
   (A) \(\frac{4}{21}\)  
   (B) \(\frac{15}{14}\)  
   (C) \(\frac{3}{7}\)  
   (D) \(\frac{27}{7}\)

5. \((-3) - \left[3(-4) + 7\right] = \)
   (A) -22  
   (B) 16  
   (C) 2  
   (D) -8

6. 16 is 8% of what number?
   (A) 80  
   (B) 20  
   (C) 4.8  
   (D) 200

7. If \(x = 2\), then \(\frac{2 + 5x}{2 + x} = \)
   (A) 3  
   (B) \(\frac{11}{3}\)  
   (C) 5  
   (D) \(\frac{7}{2}\)

8. \(3^7 \cdot 3^3 = \)
   (A) \(3^{10}\)  
   (B) \(3^{21}\)  
   (C) \(9^{10}\)  
   (D) \(9^{21}\)

9. \(\frac{4}{5} + 1 \frac{4}{15} = \)
   (A) \(5 \frac{7}{15}\)  
   (B) \(5 \frac{7}{20}\)  
   (C) \(5 \frac{13}{15}\)  
   (D) \(5 \frac{4}{25}\)

10. The area of the figure below is
    \[ \text{(A) 5} \quad \text{(B) 6} \quad \text{(C) 12} \quad \text{(D) 15} \]

    \[ \text{ANSWERS: } (1) \text{ B} \quad (2) \text{ C} \quad (3) \text{ A} \quad (4) \text{ D} \quad (5) \text{ C} \quad (6) \text{ D} \quad (7) \text{ A} \quad (8) \text{ A} \quad (9) \text{ C} \quad (10) \text{ B} \]