

Math 119
College Algebra
Prerequisite Skills Test Solutions

1. What is the value for each of the following:
 - a. $\sqrt{1} = 1$
 - b. $2^5 = 32$
 - c. $3^3 = 27$
 - d. $\sqrt{0} = 0$
 - e. $\sqrt[3]{8} = 2$
 - f. $\sqrt{49} = 7$
 - g. $-3^2 = -9$

2. Combine like terms: $3x - 2 - (x - 5) = 2x + 3$

3. Evaluate $-3x + 5$ when $x = -2$. Answer: $-3(-2) + 5 = 11$

4. Evaluate: $3 - 5 + 1 - 9 - 4 + 2 = -12$

5. Find the sum: $-\frac{2}{3} + \frac{1}{2} = -\frac{1}{6}$

6. What two whole numbers is π between? $3 < \pi < 4$

7. Find the product: $\frac{2}{3}(-3) = -2$

8. If possible, find the quotient.
 - a. $\frac{0}{6} = 0$

 - b. $\frac{6}{0}$ Division by 0 is undefined or indeterminate.

9. Which one of the following will not reduce: $\frac{15}{24} = \frac{5}{8}$, $\frac{4}{9}$ is in simplest form,
 $\frac{-26}{13} = -2$, $\frac{3}{42} = \frac{1}{14}$

10. Divide: $\frac{10}{0.5} = 20$

