

CCT Readiness Assessment - Algebra 1

Name: _____

Please answer the following questions WITHOUT using a calculator. Show your work. When finished, scan and send to the instructor or hand to the instructor at CCT. Please feel free to contact the instructor with any questions. The instructor e-mail address is available on the CCT website. If you do not pass, you will have the opportunity to study and take the test one more time.

1. Round 1.04862 to the nearest thousandths.
2. Add $\frac{3}{8} + \frac{5}{6}$ and write the answer as a mixed numeral.
3. Draw a number line that goes from -5 to 5. Plot the points 2, $-\frac{3}{2}$, -3, and $\frac{5}{2}$.
4. Multiply $\frac{5}{8} \times \frac{4}{10}$. Express the answer as a fraction reduced to lowest terms.
5. Write $5\frac{3}{4}$ as an improper fraction.
6. Express mathematically “five added to twice a number”. Use N to represent the unknown number.
7. Write $\frac{1}{4}$ as a decimal and as a percent.

8. Simplify

a. $8 - (2)(-6) + (-4)$

b. $-5 - 4$

c. $15 - 3 \times 5 - 2$

d. $2(3^2 - 4) \div 5 + 5$

9. Solve: $15x + 2 = 12$

10. Evaluate $-3x + y$ when $x = 4$ and $y = -5$.

11. What is the least common multiple of 4, 5, and 8?

12. Graph the points $A(3, -5)$, $B(-4, 2)$, $C(4, 6)$, and $D(-5, -4)$. Label the points.

