

# CCT Readiness Assessment - Pre-Algebra

Name: \_\_\_\_\_

Please do not use a calculator. Please show all your work. Please use neat handwriting.

Please do not be stressed or anxious. You WILL do great on this!

1. What is 85 rounded to the nearest ten? \_\_\_\_\_
2. What is 105 rounded to the nearest hundred? \_\_\_\_\_
3. What is 4,611 rounded to nearest thousand? \_\_\_\_\_
4. Write in standard notation:  $4,000 + 500 + 60 + 8$  \_\_\_\_\_
5. Write in place value notation: 2,391,600  
\_\_\_\_\_  
\_\_\_\_\_
6. Find the area and perimeter of a rectangle that is 72 feet long and 31 feet wide.  
Area \_\_\_\_\_  
Perimeter \_\_\_\_\_
7. Find the area of a trapezoid that has one base that measures 3 feet, one base that measures 7 feet, and a height of 5 feet.  
Area \_\_\_\_\_
8. Find the area of a right triangle that has one leg that measures 4 meters, and one leg that measures 9 meters.  
Area \_\_\_\_\_
9. Find the volume of a cuboid that is 45 feet long, 29 feet wide, and 12 feet high.  
Volume \_\_\_\_\_

Solve:

- |   |   |   |  |   |
|---|---|---|--|---|
| 10. $\begin{array}{r} 6187 \\ \times 467 \\ \hline \end{array}$ | 11. $\begin{array}{r} 2.49 \\ \times 0.6 \\ \hline \end{array}$ | 12. $\begin{array}{r} 204 \\ \times 0.11 \\ \hline \end{array}$ | 13. $\begin{array}{r} 7.52 \\ -1.85 \\ \hline \end{array}$ | 14. $\begin{array}{r} 6.0 \\ +5.28 \\ \hline \end{array}$ |
|---|---|---|--|---|

Divide to the thousandths place, and round to the hundredths place if necessary.

- |                             |                             |
|-----------------------------|-----------------------------|
| 15. $13.3 \div 4 =$ _____   | 16. $4.58 \div 7 =$ _____   |
| 17. $4.2 \div 0.28 =$ _____ | 18. $57647 \div 84 =$ _____ |

19. What is the GCF (greatest common factor) of 15 and 45? \_\_\_\_\_

20. What are the prime factors of 56? \_\_\_\_\_

21. What is the area and circumference of a circle with a radius of 5 inches?

Area \_\_\_\_\_

Circumference \_\_\_\_\_

22. What is the area and circumference of a circle with a diameter of 10 meters?

Area \_\_\_\_\_

Circumference \_\_\_\_\_

Rewrite each number without an exponent.

23.  $1^6$  \_\_\_\_\_

24.  $8^2$  \_\_\_\_\_

25.  $10^3$  \_\_\_\_\_

Solve:

26.  $\frac{1}{2} + \frac{1}{4} + \frac{7}{8} =$  \_\_\_\_\_

27.  $3\frac{4}{5} \div 2\frac{7}{25} =$  \_\_\_\_\_

28.  $\frac{4}{5} \times 2\frac{3}{4} \times 3\frac{1}{3} =$  \_\_\_\_\_

29.  $7\frac{1}{4}$   
 $-5\frac{3}{4}$   
\_\_\_\_\_

30.  $9\frac{2}{3}$   
 $+6\frac{5}{9}$   
\_\_\_\_\_