



Prealgebra Practice Test
Unit 5: Decimals

Name _____

Date _____

1. Write 504.63 as a mixed number. Do not reduce.
2. Simplify: $4.52(0.51 - 4.9)$
3. A circle has a radius of 6.2 inches. Find the circumference and area of the circle. Use 3.14 for π , and round your answer to the nearest tenth.
4. Convert $\frac{5}{8}$ to a decimal.
5. Divide: $373.46 \div 7.1$
6. Find the volume of a sphere with a radius of 2 feet. Use 3.14 for π , and round your answer to the nearest hundredth.
7. Solve the equation $0.7 + 6.8y = -0.15$.
8. Find the length of the diagonal of a rectangle with sides 5 inches and 10 inches. If the solution is not a whole number, give both the exact square root and a decimal approximation accurate to the nearest hundredth.
9. Simplify $\sqrt{180}$ without using a calculator.
10. Simplify each square root and then combine if possible: $\sqrt{8} + \sqrt{98}$