Name:

## QUIZ - MATH GRADE 11

Calculate/Simplify use fractions if possible

1. $(10 \%) \sqrt{0.0016}=$
2. $(5 \%) \sqrt[3]{a} \cdot \sqrt[3]{a} \cdot \sqrt[3]{a}=$
3. $(10 \%) \sqrt{75}+\sqrt{27}-\sqrt{300}=$
4. $(5 \%) \sqrt{x}+\sqrt{x}+\sqrt{x}=$
5. $(10 \%)$ Convert $1.7777 \ldots$ to a fraction and find its square root.
6. $(5 \%) \sqrt{98}-\sqrt{50}=$
7. $(5 \%) \frac{\sqrt{200}}{\sqrt{147}}=$
8. (10\%) Rationalize the denominator: $\frac{5}{2-3 \sqrt{7}}$
9. (5\%) Rationalize the numerator: $\frac{5 \sqrt{5}}{2+\sqrt{2}}$
10. (25\%) Given the numbers: 180 and 300.
a. (5\%) Write their prime factorization.
b. (10\%) Find their LCM
c. (10\%) Find their GCD
11. (10\%) Given the numbers: $A=a^{2} b$ and $B=a b^{2} c$ where $\mathrm{a}, \mathrm{b}$ and c are prime numbers.
a. (5\%) Find their LCM in terms of $a, b$ and $c$.
b. (5\%) Find their GCD in terms of $a, b$ and $c$.
