Name:

QUIZ - MATH GRADE 11

Calculate/Simplify use fractions if possible

1.
$$(10\%) \sqrt{0.0016} =$$

3.
$$(5\%) \sqrt[3]{a} \cdot \sqrt[3]{a} \cdot \sqrt[3]{a} =$$

2.
$$(10\%) \sqrt{75} + \sqrt{27} - \sqrt{300} =$$

4. (5%)
$$\sqrt{x} + \sqrt{x} + \sqrt{x} =$$

5. (10%) Convert 1.7777... 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: $A = a^2b$ and $B = ab^2c$ where a, 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.