

Name:

QUIZ 8 – MATH GRADE 9

Fill the blanks with appropriate numbers:

1. (5%) $\sqrt{\quad} = \quad$

3. (5%) $\sqrt[10]{\quad} = \quad$

2. (5%) $\sqrt[3]{\quad} = \quad$

4. (5%) $\sqrt[11]{\quad} = \quad$

Calculate using fractions only, give your answer as a fraction and decimal

5. (7%) $\sqrt{0.16} =$

6. (8%) $\sqrt[3]{-0.125} =$

Simplify as much as possible

7. (10%) $\sqrt{8} + \sqrt{32} + \sqrt{72} =$

8. (5%) $\sqrt[n]{a^n} =$

9. (5%) $\sqrt{a}\sqrt{a}\sqrt{a}\sqrt{a} =$

10. (5%) $\sqrt{a} + \sqrt{a} =$

11. (5%) Convert 99.99999... to a fraction and find its square root.

12. (8%) $\sqrt[3]{16x} + \sqrt[3]{24x} =$

13. (7%) Simplify:

$$\sqrt{7} \frac{\sqrt{72}}{\sqrt{14}} =$$

14. (10%) Rationalize the denominator: $\frac{5}{2+3\sqrt{7}}$

15. (10%) Rationalize the numerator: $\frac{3\sqrt{2}}{2+\sqrt{2}}$