Year 9 Algebraic Expressions – Foundation

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Year 9 · Maths · Expanding, Index Laws and Algebraic Fractions · Level 1 Foundation · 10 questions

Name _____ **Date** _____

A. Algebra skills

1. Expand and simplify $(p - 2)(p + 1)$.

Answer _____

2. Expand and simplify $(a + 2)(a + 9)$.

Answer _____

3. Expand and simplify $(t + 5)^2$.

Answer _____

4. Simplify $30x^7 \div 6x^3$. Answer _____

5. Simplify $4m^5 \times 6m^5$. Answer _____

6. Simplify $24a^3 \div 4a - 8a^2$.

Answer _____

7. Work out the value of $(a + b)^2 \div a$ when $a = -2$ and $b = -4$.

Answer _____

8. Simplify $(18n^3)/(12n^2)$.

Answer _____

9. Write an expression for this: add 7 to n, then find the square root of the result.

Answer _____

10. A square photo has sides of x cm. It has a border 6 cm wide all the way round. Write an expanded expression for the total area of the photo and border in cm^2.

Answer _____