# Algebraic Fractions (Grade 9)

## WORKSHEET

Name: ..... Class: .....

Date: .....

MARK ____ / 16

*Answer all questions. Show all your working — marks are awarded for method as well as the final answer.*

**1** Simplify: $\frac{6x^2}{3x}$ **(1)**

**2** Simplify: $\frac{x^2 + 3x}{x}$ **(2)**

**3** Simplify: $\frac{10a^3}{5a}$ **(1)**

**4** Simplify: $\frac{2x}{3} \times \frac{9}{4x^2}$ **(3)**

**5** Simplify: $\frac{x}{4} \div \frac{x}{2}$ **(2)**

**6** Simplify: $\frac{x}{2} + \frac{x}{3}$ **(2)**

**7** Simplify: $\frac{3}{x} + \frac{2}{5}$ **(3)**

**8** Why can you not cancel the $x$ in $\frac{x^2 + 3x}{x}$ before factorising? **(2)**

**TOTAL: 16 marks**

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