Name: \_\_\_\_\_

# **GCSE** Maths

# **Multiplying Algebraic Fractions**

#### Instructions

- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided there may be more space than you need.
- Simplify each algebraic fraction fully.
- Show full working for each question.

## Information

• The marks for each question are shown in brackets use - this as a guide as to how much time to spend on each question.

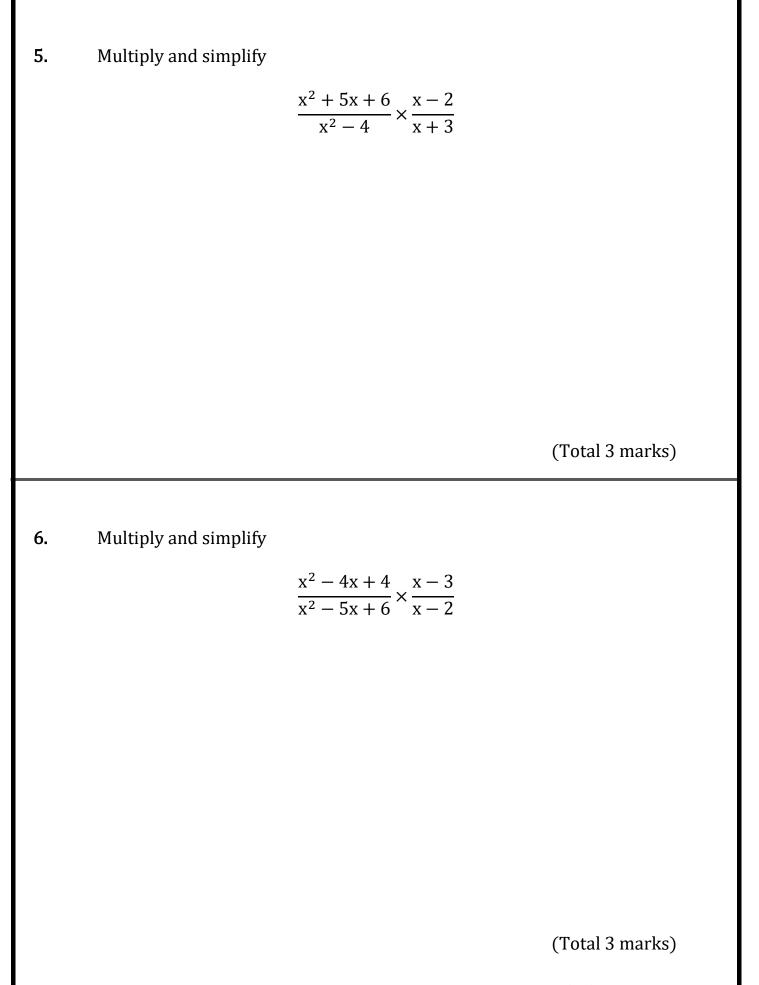
## Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.



1.	Multiply and simplify	$\frac{3x}{5} \times \frac{10}{6x}$	
			(Total 3 marks)
2.	Multiply and simplify	$\frac{x^2 - 16}{x + 4} \times \frac{x + 4}{x - 4}$	
			(Total 3 marks)

3.	Multiply and simplify	$\frac{x^2 + 7x + 12}{x + 3} \times \frac{x + 2}{x + 4}$	
4.	Multiply and simplify	$\frac{x^2 - 9}{x^2 - 1} \times \frac{x + 1}{x - 3}$	(Total 3 marks)
			(Total 3 marks)



My Exam Revision

7.	Multiply and simplify	$\frac{2x^2 - 18}{x^2 - 9} \times \frac{x + 3}{x - 2}$	
			(Total 3 marks)
8.	Multiply and simplify	$\frac{x^3 - 8}{x^2 - 4x + 4} \times \frac{x - 2}{x + 2}$	

(Total 3 marks)

My Exam Revision

9. Multiply and simplify  

$$\frac{x^2 - 7x + 10}{x^2 - x - 20} \times \frac{x + 4}{x - 2}$$
(Total 3 marks)  
10. Multiply and simplify  

$$\frac{x^3 - x^2 - x + 1}{x^2 - 1} \times \frac{x - 1}{x + 1}$$

(Total 3 marks)

