

IGCSE Maths 4MA1 Algebraic Fractions and Rearranging Formulae Practice Exam

Pearson Edexcel International GCSE Mathematics A (4MA1), Higher tier · 15 questions · 45 marks

Name _____

Date _____

Score / 45

- Answer every question. Show your working: most marks are for method.
- Calculator allowed.
- Topics: Rearranging Formulae; Algebraic Fractions.
- The mark scheme is a separate free PDF: [igcsemathrevision.com/igcse-frontend/downloads/practice-exams/4ma1/igcse-maths-4ma1-algebraic-fractions-and-rearranging-formulae-practice-exam-mark-scheme.pdf](https://www.igcsemathrevision.com/igcse-frontend/downloads/practice-exams/4ma1/igcse-maths-4ma1-algebraic-fractions-and-rearranging-formulae-practice-exam-mark-scheme.pdf)

1. Make x the subject of $ax + b = cx$. [2]

2. Make a the subject of $P = 2a + ab$. [2]

3. Solve $\frac{x+4}{3} - \frac{x-2}{5} = 2$. [3]

4. Solve $\frac{5}{x+1} = \frac{3}{x-2}$. [3]

5. Solve $\frac{4}{x} + \frac{3}{2x} = \frac{11}{2}$. [3]

6. Make p the subject of $3p + q = pr - 2$. [3]



7. Make x the subject of $y = \frac{x+2}{x-5}$. [3]

8. Solve $\frac{x}{x-3} - \frac{2}{x+1} = 1$. [3]

9. Solve $\frac{6}{x+3} = x-2$. [3]

10. Make m the subject of $k = \frac{2m-3}{m+4}$. [3]

11. Make m the subject of $E = \frac{m(v+u)}{m+2}$. [3]

12. Solve $\frac{1}{x-2} + \frac{1}{x+2} = \frac{3}{x^2-4}$. [3]

13. Make x the subject of $\frac{1}{x} + \frac{1}{y} = \frac{1}{f}$. [3]

14. Solve $\frac{2}{x-1} - \frac{1}{x+2} = \frac{1}{2}$. [4]



15. $x = \frac{4y + 1}{y - 2}$. (a) Make y the subject of the formula. (3) (b) Hence find the value of y when $x = 6$. (1) [4]

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