

**AQA, OCR, Edexcel**

**GCSE**

# GCSE Maths

Solving Linear Equations  
Questions

Name:

**M M E**

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Total Marks: /31

## Solving Linear Equations

1. Solve the following linear equations:

a.  $5x + 7 = 42$

b.  $6x - 5 = 2x + 15$

c.  $-4x - 30 = 10x + 110$

d.  $-10x + 90 = -21x + 2$

(7 Marks)

2. Solve the following equations:

a.  $3(x + 10) = 63$

b.  $2(x + 4) = x + 10$

c.  $3(2x + 12) = 2(2x - 10)$

d.  $2(x + 4) = 3(x + 10) - 2$

(6 Marks)

3. Solve the following equations, leaving your answer as a fraction where appropriate:

a.  $3(x + 12) = -4(3x - 8)$

b.  $10(2x + 12) = -7(x + 12)$

c.  $3(3x - 12) = -4(4x - 9)$

(6 Marks)

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4. Solve the following equations, leaving your answer as a fraction where appropriate:

a.  $\frac{3x+2}{2} = 6x + 4$

b.  $\frac{5x+10}{5} = -x + 10$

c.  $\frac{3x+9}{6} = \frac{2x+10}{3}$

(6 Marks)

5. Solve the following equations:

a.  $\frac{3x+4}{3} + \frac{2x+2}{2} = 6$

b.  $3x^2 = 12$

c.  $4(x^2 + 2) = 44$

(6 Marks)