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## GCSE MATHEMATICS

Foundation and Higher tier – Questions by Topic

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Algebra

Solving equations with two or more steps

v1.0

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Name \_\_\_\_\_

### Materials

For this paper you must have:

- Mathematical instruments

### Information

- The marks for questions are shown in brackets

### Advice

- In all calculations, show clearly how you work out your answer

For questions 1 to 4 you must **NOT** use a calculator.



**Q1.**

Solve  $2x - 7 = 10$

(Total 2 marks)

**Q2.**

Solve  $\frac{x}{7} - 3 = 4$

(Total 2 marks)

**Q3.**

Solve  $3x - 8 = 19$

(Total 2 marks)

**Q4.**

Solve  $6x - 11 = 13$

(Total 2 marks)

**Q5.**

Solve  $\frac{2w}{15} = \frac{4}{5}$

(Total 2 marks)

**Q6(H).**

$0.203 = \frac{1}{5} + x$

Circle the value of  $x$ .

$\frac{1}{300}$

$\frac{1}{3000}$

$\frac{3}{100}$

$\frac{3}{1000}$

(Total 1 mark)

For the rest of the questions, you may use a calculator.



**Q7.**

Solve  $2x + 3 = 27$

(Total 2 marks)

**Q8.**

Solve  $10x - 3 = 21$

(Total 2 marks)

**Q9.**

Solve  $4x - 3 = 14$

(Total 2 marks)

**Q10.**

Solve  $4x + 1 = 39$

(Total 2 marks)

**Q11.**

Solve  $4(2d - 5) = 28$

**(Total 3 marks)**

**Q12(H).**

Solve  $\frac{x+8}{2} + \frac{9-x}{5} = 4$

**(Total 4 marks)**