

8300

GCSE MATHEMATICS

Foundation tier – Questions by Topic

Algebra

Solving equations with one step

v1.0

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 $x - 3 = 0$

Write down the correct answer from this list:

$x = -3$

$x = 0$

$x = \frac{1}{3}$

$x = 3$

(Total 1 mark)

Q2.

Solve $3x = 6$

Write down the correct answer from this list:

$x = 0.5$

$x = 2$

$x = 3$

$x = 18$

(Total 1 mark)

Q3.

Solve $4x = 8$

Write down the correct answer from this list:

$x = 0.5$

$x = 2$

$x = 4$

$x = 32$

(Total 1 mark)

Q4.

(a) Solve $x - 3 = 14$

(1)

(b) Solve $5y = 45$

(1)

(c) Solve $8 + w = 6$

(1)

(Total 3 marks)

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



Q5.

Solve $5x = 30$

(Total 1 mark)

Q6.

Solve $-2 + y = 10$

(Total 1 mark)

Q7.

Solve $\frac{c}{3} = 15$

(Total 1 mark)

Q8. Solve $\frac{x}{3} = 6$

(Total 1 mark)

Q9. Solve $5x = 15$

(Total 1 mark)

Q10. Solve $y + 7 = 50$

(Total 1 mark)

Q11. Solve $\frac{c}{4} = 8$

(Total 1 mark)

Q12. Solve $12 - e = 0$

(Total 1 mark)

Q13. Solve $7f = 0$

(Total 1 mark)

Q14. Solve $4 + x = 12$

Write down the correct answer from this list:

$x = -16$

$x = -8$

$x = 8$

$x = 16$

(Total 1 mark)

Q15. Solve $7x = 56$

(Total 1 mark)

Q16. Solve $25 - y = 18$

(Total 1 mark)

Q17. (a) Solve $x + 17 = 12$

(1)

(b) Solve $\frac{w}{4} = 12$

(1)

(Total 2 marks)

Q18. Solve $3x = 2$

Write down the correct answer from this list:

$x = -1$

$x = \frac{2}{3}$

$x = \frac{3}{2}$

$x = 6$

(Total 1 mark)

Q19.

(a) Solve $n + 7 = 103$

(1)

(b) Solve $\frac{m}{6} = 12$

(1)

(Total 2 marks)