GCSE · Edexcel · Maths

1 hour 22 questions

Exam Questions

Linear Equations

Solving Linear Equations / Equations with Brackets & Fractions / Equations with Unknowns on Both Sides

Easy (5 questions)	/6
Medium (9 questions)	/25
Hard (8 questions)	/35
Total Marks	**/66**

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Easy Questions

1 Solve $x + x + x + x = 12$

x = ...

(1 mark)

2 Solve $t - 9 = 7$

t = ...

(1 mark)

3 Solve $\frac{x}{8} = 5$

x = ...

(1 mark)

4 (a) Complete these statements.

When w = ... , $10w = 70$.

(1 mark)

(b) When $5x = 15$, $12x$ = ...

(1 mark)

5 Solve $5x = 4x + 6$

x = ...

(1 mark)

Medium Questions

1 Solve $4x + 9 = 25$

x = ...

(2 marks)

2 (a) Solve $\frac{5x}{2} = 20$

x = ...

(2 marks)

(b) Solve $\frac{f + 8}{7} = 2$

f = ...

(2 marks)

3 Solve $3x = 5 - 2x$

x = ...

(2 marks)

4 Solve the equation $12x - 7 = 23$

x = ...

(2 marks)

5 Solve these equations.

i) $x + 7 = 15$

x = ...[1]

ii) $5(3x + 8) = 10$

x = ...[3]

(4 marks)

6 (a) Solve $8(w + 11) = 120$

w = ...

(2 marks)

(b) $\frac{x-2}{3} = 3$

x = ...

(2 marks)

7 Solve $7x - 5 = 16$

$x =$ .....

(2 marks)

8 Solve the equation $6 - 2x = 3x$

$x =$ .....

(2 marks)

9 Solve $3(5x - 9) = 27$

(3 marks)

Hard Questions

1 Solve $6(3-2x)=42$

x = ...

(3 marks)

2 Solve $\frac{16x+7}{3}=5$

(3 marks)

3 Solve $8x+6=2(9+x)$

x = ...

(3 marks)

4 Solve these equations.

i) $\frac{x}{3}=18$

$x =$ .....[1]

ii) $5x + 18 = 8$

$x =$ .....[2]

iii) $12x - 3 = 4x + 21$

$x =$ .....[2]

(5 marks)

5 Solve $5(2x + 4) = 85$

$x =$ .....

(3 marks)

6 Solve these equations.

i) $5x = -30$

$x =$ ..... [1]

ii) $4x - 2 = 28$

$x =$ ..... [2]

iii) $3(2x + 7) = 12$

x = ... [3]

(6 marks)

7 Solve.

i) $10x = 5$

x = ... [1]

ii) $7x - 3 = 2x + 11$

x = ... [2]

iii) $3(2x - 1) = 27$

x = ... [3]

(6 marks)

8 Solve these equations.

i) $\frac{x}{4} = 20$

x = ... [1]

ii) $3x - 5 = 16$

x = ... [2]

iii) $5(2x + 1) = 27$

x = ... [3]

(6 marks)