

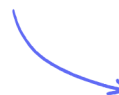
Calculator Questions

Linear Equations & Inequalities

Solving Linear Equations / Solving Linear Inequalities

Easy (3 questions)	/6
Medium (4 questions)	/12
Hard (4 questions)	/13
Total Marks	/31

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Easy Questions

1 Solve.

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

$x =$

(2 marks)

2 Solve the equation $6x - 3 = -12$.

$x =$

(2 marks)

3 Solve the equation.

$$9f + 11 = 3f + 23$$

$f =$

(2 marks)

Medium Questions

- 1 Find the integer values of n that satisfy this inequality.

$$-7 < 4n \leq 8$$

(3 marks)

- 2 Find the integer values of n that satisfy the inequality $15 \leq 4n < 28$.

(3 marks)

- 3 Solve $30 + 2x = 3(3 - 4x)$.

$x = \dots\dots\dots$

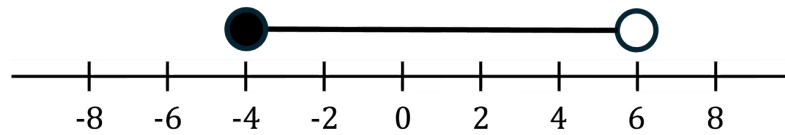
(3 marks)

- 4 (a) Solve the inequality

$$3x - 2 \leq \frac{2(12 + 6x)}{3}$$

(2 marks)

(b)



State the inequality represented by the number line.

(1 mark)

Hard Questions

1 Solve.

$$4(5 - 3x) = 23$$

$x =$

(3 marks)

2 Solve the equation $\frac{2x+5}{3-x} = \frac{14}{15}$.

$x =$

(3 marks)

3 Solve the equation.

$$3(x-4) + \frac{x+2}{5} = 6$$

$x =$

(4 marks)

4 Find the **integer** values of n that satisfy the inequality $18 - 2n < 6n \leq 30 + n$.

(3 marks)