

Junior Certificate – Algebra Revision 3

Linear Inequalities, Manipulating Formula

Linear Inequalities

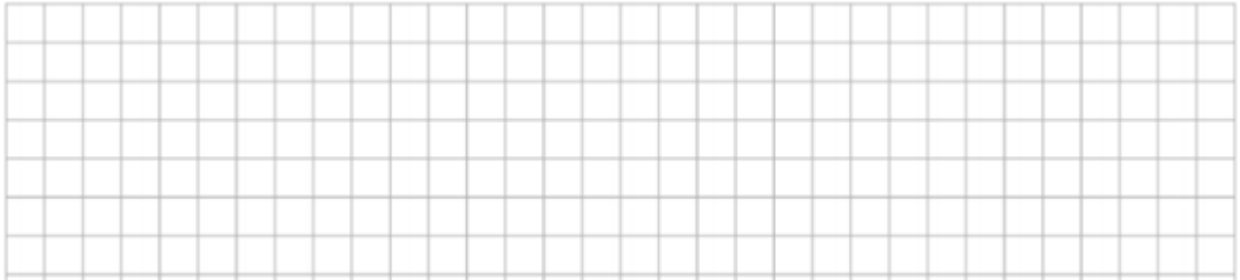
1. Solve the following

$$5x - 1 > 3$$



2. Solve the following

$$7x + 1 \leq 3x - 15$$



3. Solve the following

$$5(x + 2) \geq 2(x - 1)$$



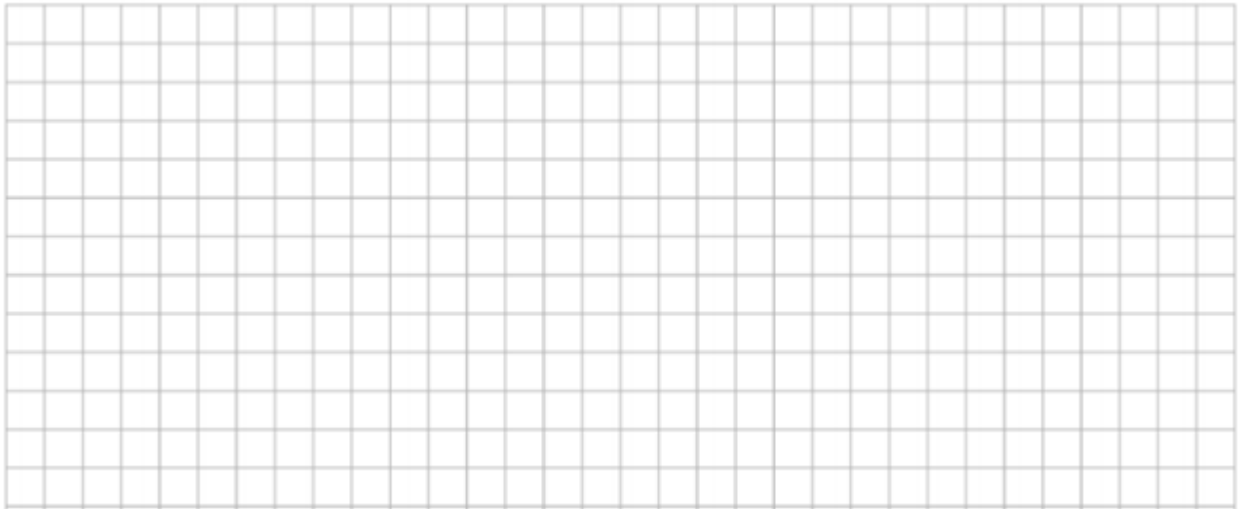
4. Solve the following

$$-13 < 4x - 1 < 19$$



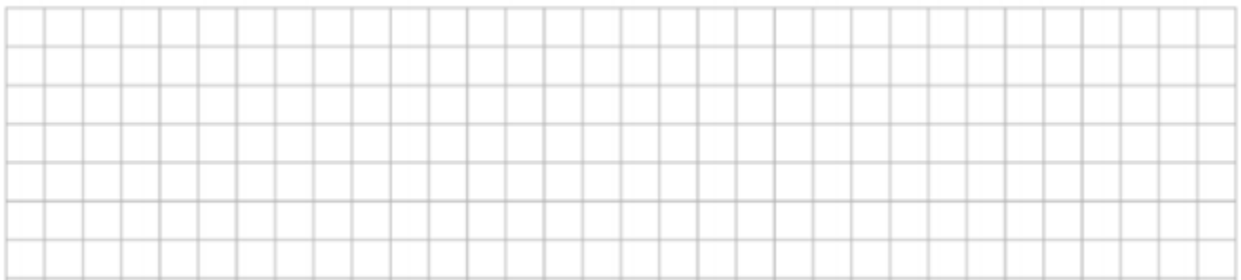
5. Solve the following

$$-12 \leq 4x \leq 4$$



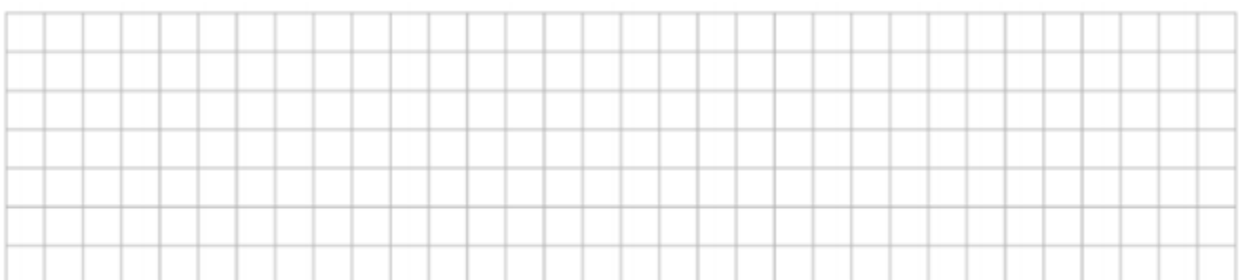
6. Make the term in the brackets () the subject of the formula

$$3a - b = c \dots (a)$$



7. Make the term in the brackets () the subject of the formula

$$2b - 3a = 5c \dots (b)$$



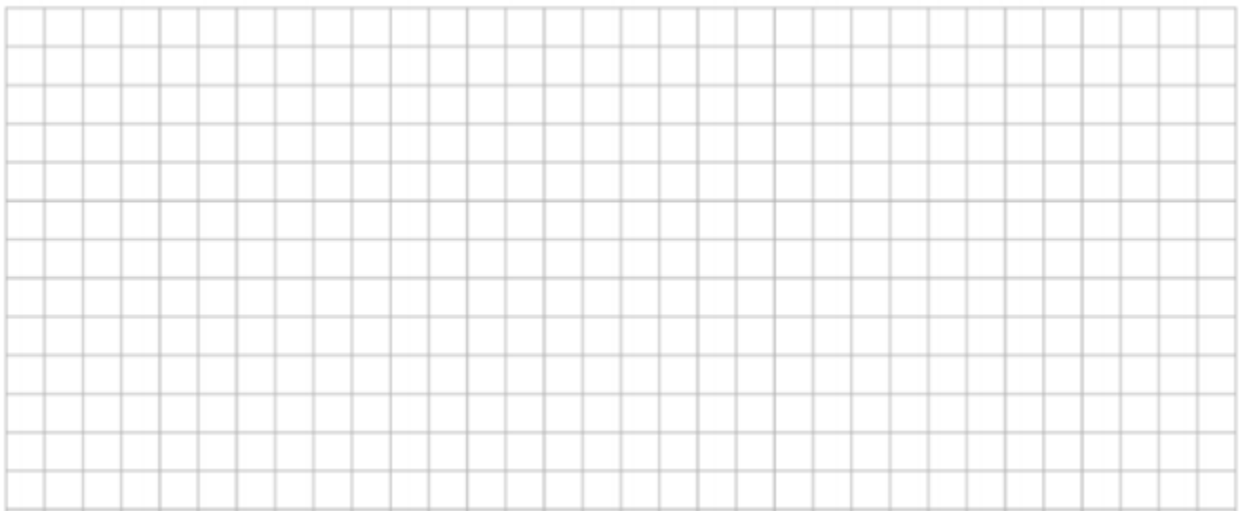
8. Make the term in the brackets () the subject of the formula

$$p - \frac{t}{q} = r \dots (q)$$



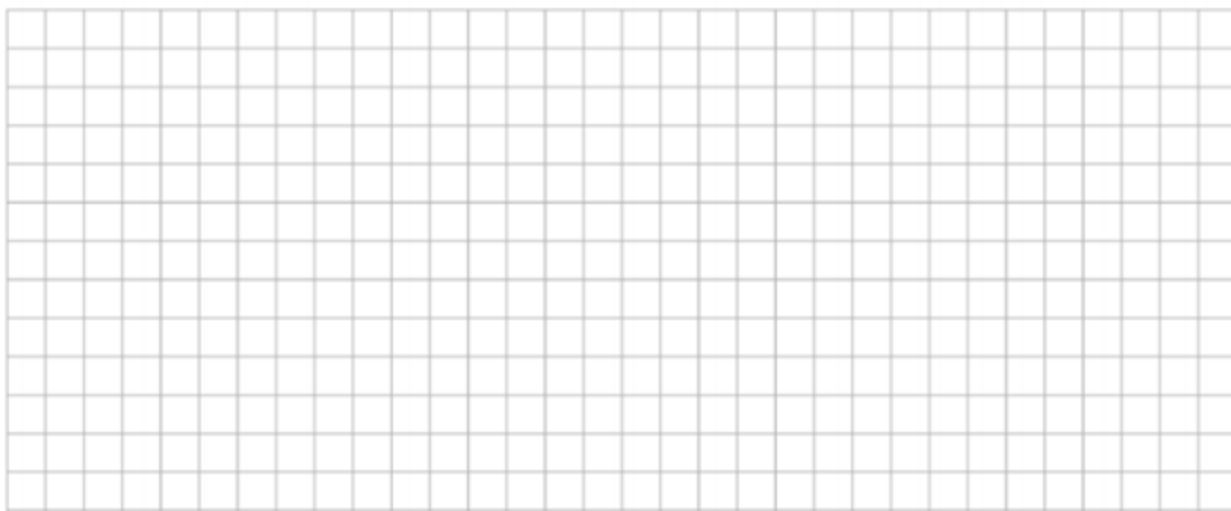
9. Make the term in the brackets () the subject of the formula

$$\frac{1}{u} + \frac{1}{v} = \frac{1}{f} \dots (f)$$



10. Make the term in the brackets () the subject of the formula

$$a = \sqrt{\frac{p}{q}} \dots (q)$$



11. Find a value for h , the height of a trapezium when; $A=150$, $a=10$ and $b=15$

$$A = \left(\frac{a+b}{2}\right)h$$

