Checklist
- o   do I have ONE equal sign per line
- o   did I read the question carefully and answer what was asked
- o   was I careful when using operations involving negative values

1. **Solve** the following multi-step equations. Show your work for complete marks. (12 marks)

(a) $10a - 6a = 12$ (b) $4p + 9 = -7$ (c) $\dfrac{a}{2} - \dfrac{1}{4} = \dfrac{7}{8}$

(d) $4x - 6 = 5x + 4$ (e) $7(p - 1) = 35$ (f) $2(a - 5) - 4(2a - 1) = 18$

2. Expand the following expressions (use FOIL where necessary). (6 marks)

(a) $3(y - 4)$ (b) $(x + 3)(x - 5)$ (c) $(x + 1)^2$

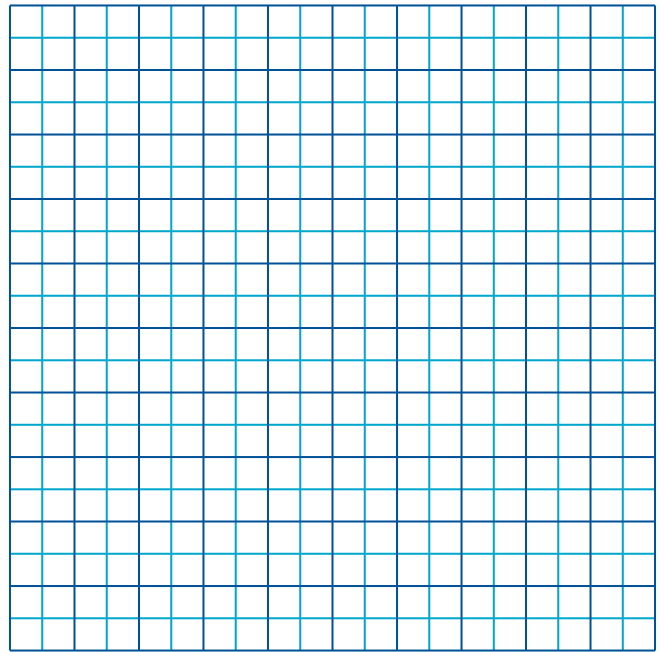3. Factor the following expressions: (6 marks)

(a) $12x + 18$ (b) $4x^2 - 16x$ (c) $16x + 18y - 24z$

4. For the following linear relationship, complete the table of values given below and find the following:

X	Y
-2	-5
-1	-2
0	1
1	
2	

(a) State the slope of the line
(b) State the y intercept of the line
(c) State the x intercepts of the line (careful)
(d) State the equation of the line (y=mx+b)

5. What is the equation of the line that has a slope of 3 and passes through the point B(2,9)?

6. What is the equation of the line that passes through A(-4,8) and B(6,3)?