

Checklist

- ☐ do I have ONE equal sign per line
- ☐ did I read the question carefully and answer what was asked
- ☐ 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) $\frac{a}{2} - \frac{1}{4} = \frac{7}{8}$

(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) $12x + 18$

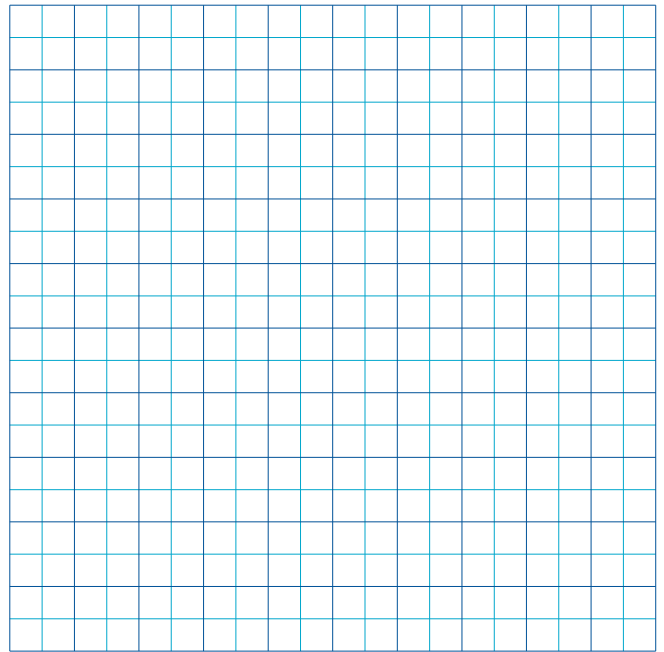
(b) $4x^2 - 16x$

(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)?