

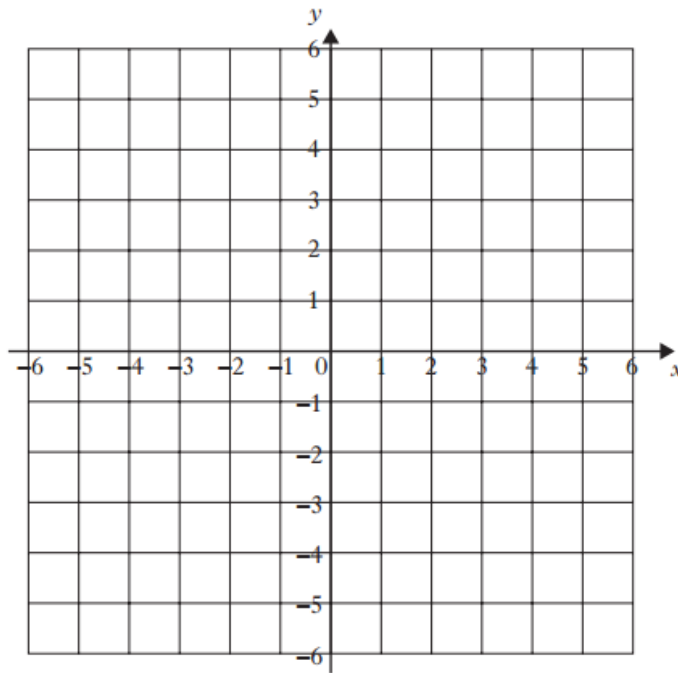
National 4 Mathematics: Homework 8

§ 1 Straight Lines

- 1 (a) Complete the table below for $y = 2x - 1$.

x	-1	1	3
y			

- (b) Using the table in part (a), draw the graph of the line $y = 2x - 1$ on the



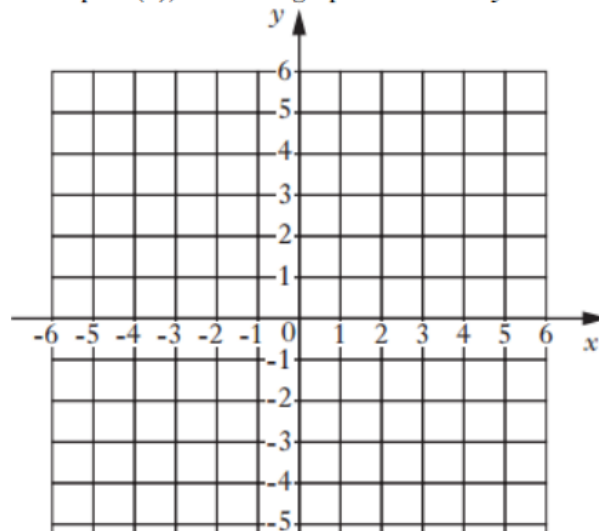
- 2 State the gradient and the y-intercept point for each line below.

- (a) $y = x - 7$ (b) $y = -5x + 3$ (c) $y = 3x - 10$
 (d) $y = -4x$ (e) $2x + y = 11$ (f) $2y = x - 5$

- 3 (a) Complete the table below for $y = 2x - 3$.

x	-1	1	3
y			

- (b) Using the table in part (a), draw the graph of the line $y = 2x - 3$ on the grid below.



National 4 Mathematics: Homework 8

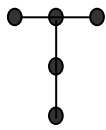
§ 2 Pie Charts

- 1 Draw a pie chart to represent the information in the table below

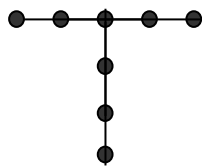
Type of House	Bungalow	Villa	Terraced	Flats	Semi-detached
Houses Built	300	150	450	1500	1200

§ 3 Mixed

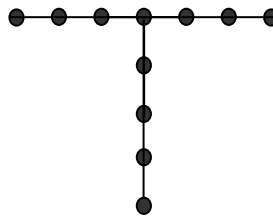
- 1 a) Draw the next T-shape in this sequence.



Shape 1



Shape 2



Shape 3

Shape 4

- b) Complete the following table.

Shape number (s)	1	2	3	4	5
Number of dots (d)	5		11		

16

- c) Write down a formula for the numbers of the dots, d when you know the shape number, s.

- d) 101 dots are used in drawing a T-shape.

What is the shape number?

- 2 Calculate:

a) $5 + 2 \times 3$

b) $18 - 9 \div 3$

c) $36 \div 6 + 3$

d) $(25 + 15) \div 4$

- 3 Calculate:

a) $\pounds 5.60 + \pounds 2.99$

b) $\pounds 17.80 - \pounds 5.99$

c) $\pounds 2.99 \times 6$

d) $\pounds 6.35 \times 10$

e) $\pounds 26.45 \div 5$

f) $\pounds 472 \div 100$

- 4 Ron works 4 days a week. He is paid £49 per day.

Calculate his weekly earnings.