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JSS3 Term 2	JSS2 resources for JSS3
Lessons 46 – 49 (JSS3 PHB) Transformations and congruency Lessons 50 – 55 (JSS3 PHB) Transformations, congruency and similarity	<b>Topic 9: Transformations</b> Term 2, Lessons 91 – 98 (JSS2 PHB) Transformations: translation, reflection, rotation; Line symmetry, rotational symmetry; Enlargement Combining transformations
	Scale factor (included in Topic 11)
Lessons 56 – 59 (JSS3 PHB) Introduction to trigonometry Lessons 60 – 65 (JSS3 PHB) Continued Trigonometry	Refer to revision of triangles
Lessons 66 (JSS3 PHB) Changing the subject of the formula Lessons 67 – 74 (JSS3 PHB) Algebra and linear equations	Topic 10: Algebraic expressions
Lessons 75 – 78 (JSS3 PHB) Quadratic equations Lessons 79 – 81 (JSS3 PHB) Factors and factorising Lessons 82 – 85 (JSS3 PHB) More factorising and quadratics Lessons 86 – 92 (JSS3 PHB) Linear equations in two variables	<b>Topic 12: Linear equations</b> Term 3, Lessons 116 – 120 (JSS2 PHB) Algebra (expand, factorise, substitute) Lessons 121 – 130 (JSS2 PHB)
Lessons 93 – 94 (JSS3 PHB) Table of values Lessons 95 – 97 (JSS3 PHB) Cartesian plane Lessons 98 – 100 (JSS3 PHB) Graphing a line Lessons 101 – 105 (JSS3 PHB) Slope of a line	Topic 13: Cartesian Plane Term 3, Lessons 131 – 135 (JSS2 PHB)

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# Topic 9: Transformations M-08-091 to M-08-100 p98 – 127

Check that you can: work with shapes on the Cartesian plane	Do you understand these words? translate, rotate, reflect, enlarge; translation, rotation, reflection, line symmetry, rotational symmetry, enlargement; scale factor.				Refer to JSS2 Term 2
Transformations of size. Only enlarger * Translation: To r but keep the same * Reflection: A sha The distance betwee same as between t * Rotation: Moves without changing it * Enlargement: T (made bigger or sm A scale factor is u * Symmetry: A lin The two halves are If you fold a shape The two halves will	CC shapes are ways of changing nent changes the size of the s move a point or shape in any shape in the same orientation ape reflected across a mirror I een the reflected shape and the the original shape and the mir or turns a shape around a fix s size. The size of the shape is chang naller), but keeps the same sh sed to enlarge dimensions. e of symmetry divides a shap mirror images of each other. on the line of symmetry, fit exactly on top of each other.	Incepts:         their position, or their orientation or their hape.         direction, (no turning).         ne.         e mirror line is the or line.         ed point,         ed ape.         e into two identical halves.         or.	Trai * Red if it The sam Th <u>Exa</u> - re - tra - ro - no - on - on	nsformations can als otational symmetry looks exactly the sam e order of rotation is the ne as you rotate it thr 90° turn 180 ne rectangle has a rotation amples: The original s offected over the y-ax anslated to create sho tated around the original p rotational symmetry ne line of symmetry	o be done on a Cartesian plane. A shape has rotational symmetry ne after being rotated. the number of times it looks the rough 360°. turn 360° turn al symmetry order of 2. shape below is tis to create shape <b>a</b> hape <b>b</b> gin to create shape <b>c</b>

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#### **Topic 9: Transformations**

#### Exercise



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#### **Topic 9: Transformations**

#### Questions continued



1. Draw the mirror line of between shape A and its reflection.

2. Draw the reflection of shape B over the line of symmetry shown.

3. Enlarge shape C by a scale factor of 2. The enlargement should use the same position as shape C.

4. Rotate shape D around the point shown. Use an anticlockwise rotation of  $90^\circ$ 

#### Check your answers:



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# Topic 10: Algebraic expressions M-08-106 to M-08-115 p139 – 155

<b>Check that you can:</b> Use letters or variables to represent unknown values	Do you understand these words? Algebraic expression; order of powers; coefficient; like terms; constant; variables.			Refer to JSS2 Term 2
		CONCEPT	S:	
* We can <b>expand</b> an express	ion by multiplying out the bracket	S.	$3(2x^2 + 3x + 2) = 6x^2$	+ 9x + 6
* Note: Factors of a number a	are numbers that divide exactly ir	to the first number.	Factors of 12 are 1, 2	2, 3, 4, 6, 12.
The product of two fac	ctors gives the first number.		1 × 12 = 12; 2 × 6 = 1	12 and $3 \times 4 = 12$ .
* We can factorise by finding	a common factor.		3x – 6 has a commor	n factor of 3, so 3(x – 2)
			$5x^2 - 15x = 5x(x - 3)$	has a common factor of 5x.
Substitution:				
We replace variables in an exp	pression with given values of the	variables.	Find x + 6 if x = 2. Su	bstitute to get 2 + 6 = 8.
			The value of x + 6 is	8.
			Find $x^2 + 3x - 1$ if x =	$-2. \qquad (-2)^2 + 3(-2) - 1 = -3$
			Find 2x <sup>2</sup> + 3y – 1 if x	= 1 and y = 4. $2(1)^2 + 3(4) - 1 = 13$
Remember what to do when y	ou are multiplying by a <b>negative</b>	number	3(-2) = -6; -3(-2) =	6; $-3(2) = -6; 3(2) = 6$
Remember to use the order of	operations:			
Brackets Of Division & Multipli	ication; Addition & Subtraction		Find $-2x^2 - xy^2$ wher	n x = -1 and y = -4
			$-2x^2 - xy^2 = -2(-1)^2$	$-(-1)(-4)^2 = -2(1) - (-1)(16) = -2 + 16 = 14$
		CONCEPT	s.	
* An algebraic expression is a combination of terms without an equals sign.				
3x - 4 + x + 8	is an algebraic expression	with 4 terms.	* 3 is the <b>coefficient</b> of x in the	e first term
			and 1 is the <b>coefficient</b> of v	in the 3rd term

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#### Topic 10: Algebraic expressions

#### Exercise

1.	How many terms in	this algebraic expr	ression? $2x^3$	$x^{3} - x^{2} + $	4x - 1		
2.	Identify the variable,	the coefficient and	d the consta	nt term in	each algebraid	c expression	below:
	a) 5x – 8	b) –2	2x + 1	c)	k – 7	d)	3р
3.	Simplify the followin	g expressions:					
	a) $4x + 2 + x - 6 + $	x	b) 92	c - 1 - 3x	c – 2 + 5x + 5 -	- 2 <i>x</i>	
	c) $2x - 3x + 5 - 5 - 5$	-4x + 4	d) 6x	$x^4 + 2x^2 + 2x^2$	$2 - 3x^4 + 2x^2 - 3x^4 + 2x^2 - 3x^4 + 3x^2 - 3x^4 + 3x^4 + 3x^2 - 3x^4 + 3x^2 - 3x^4 + 3x^2 - 3x^4 + 3x^4 + 3x^2 - 3x^4 + 3x^4 + 3x^4 - 3x^4 + 3x^4 + 3x^4 - 3x^4 + 3x^$	3	
	e) m²n – 2mn – 4m	n + 3m²n – mn²	f) 2k	(k² – 5k)			
	g) –pq + 4p – 2q – 3	3pq + 2q					
4.	Expand the following	g expressions:					
	a) 3(6x – 1)		b) –2	<u>2(x² + 3x -</u>	- 4)		
	c) $4(2x^2 - 3x + 1)$		d) –5	5(x + 7)			
	e) $3x^2 - 8 + x(x + 2)$	12)	f) x(:	x + 5x + 9	9) – 12 <i>x</i>		
	g) $25y - y(3 + 9)$		h) x(2	2 + y) + 6	5x - y		
5.	Simplify						
	a) 3 – 10x + 3x <sup>2</sup> – 1	1x + 13	b) –2	$2x^3 + 12x^2$	$x^2 - 5 + x^3 - 20x$	<sup>2</sup> + 9	
	c) $-2x^2 - 3x - 2 - 5$	<b>x</b> – <b>x</b> <sup>2</sup>	d) –3	3x + 2 + x	$x^{2} + x - 2 + x^{4} + x^{4}$	2x – 3	
	e) $2y(y^2 + 4y)$			6.	Multiply		
	a) $3y^2 \times 2y^5$	b) $-x \times 4x^2$	2	c) 3a	$^{8} \times 8a^{3}$	d) 5p	q × −2p²
	e) $12xy \times x^2$	f) a(a <sup>3</sup> + a)		g) b(2	2a – 3b)	h) m²	(2m + 1)
7	Muite en electrois e		- II				

7. Write an algebraic expression for the following:

a) the number of hours in *d* days. b) the number of months in *x* years.

c) the amount I will pay to use the internet for *m* minutes at an internet café.

They charge me Le 10,000 to use a computer and Le 5,000 per minute that I spend on the internet. d) The area of a square that has a perimeter 4p.

Check your answers:	
1. 4 terms	
2. a) variable x; coeffi	cient 5; constant term –8
b) variable x; coeffi	cient –2; constant term 1
c) variable k; coeffi	cient 1; constant term -7.
d) variable p; coeffi	cient 3; constant term 0.
3. a) 6 <i>x</i> – 4 b) 9.	x + 2 c) $-5x + 4$
d) $3x^4 + 4x^2 - 1$	e) $4m^2n - 6mn - mn^2$
f) 2k <sup>3</sup> – 10k <sup>2</sup>	g) –4pq + 4p
4. a) 18x – 3	b) $-2x^2 - 6x + 8$
c) 8x <sup>2</sup> – 12x + 4	d) –5x – 35
e) $4x^2 + 12x - 8$	f) $6x^2 - 3x$
g) 13 <i>y</i>	h) $8x + xy - y$
5. a) 3x <sup>2</sup> – 21x + 16	b) $-x^3 - 8x^2 + 4$
c) $-3x^2 - 8x - 2$	d) $x^4 + x^2 - 3$
e) 2y <sup>3</sup> + 8y <sup>2</sup>	
6. a) 6y <sup>7</sup>	b) –4x <sup>3</sup>
c) 24a <sup>11</sup>	d) –10p <sup>3</sup> q
e) 12x³y	f) $a^4 + a^2$
g) 2ab – 3b²	h) 2m <sup>3</sup> + m <sup>2</sup>
7. a) 24 × <i>d</i> hours	b) 12 <i>x</i> months
c) 10,000 + (5,000	$\times$ m)
d) Perimeter is 4p.	So one side of the
square is p and	area = p <sup>2</sup>
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# Topic 11: Factorising and substitution in algebra M-08-114 and M-08-115 p156 – 160 (Term 2) and M-08-116 – M-08-120 p2 – 14 (Term 3)

<b>Check that you can:</b> Find the factors of a number; find the common factors of two numbers	<b>Do you understand these words?</b> Factor; factorise; common factor; substitute			Refer to JSS2 Term 2 & 3
		CONCEPTS:		
* We can <b>expand</b> an express	ion by multiplying out the brackets.		$3(2x^2 + 3x + 2) = 6x^2 +$	9x + 6
* Note: Factors of a number a	are numbers that divide exactly into the fir	st number.	Factors of 12 are 1, 2, 3, 4, 6, 12.	
The product of two fac	tors gives the first number.		$1 \times 12 = 12$ ; $2 \times 6 = 12$ and $3 \times 4 = 12$ .	
* We can <b>factorise</b> by finding	a <b>common factor</b> .		3x - 6 has a common factor of 3, so $3(x - 2)$	
			$5x^2 - 15x = 5x(x - 3)$	has a common factor of 5x.
Substitution:				
We replace variables in an exp	pression with given values of the variables	S.	Find $x + 6$ if $x = 2$ . Subs	stitute to get 2 + 6 = 8.
			The value of x + 6 is 8.	
			Find $x^2 + 3x - 1$ if $x = -$	$-2. \qquad (-2)^2 + 3(-2) - 1 = -3$
			Find $2x^2 + 3y - 1$ if x =	1 and $y = 4$ . $2(1)^2 + 3(4) - 1 = 13$
Remember what to do when you are multiplying by a <b>negative number</b>			3(-2) = -6; -3(-2) = 6;	; -3(2) = -6; 3(2) = 6
Remember to use the order of	operations:			
Brackets Of Division & Multipli	cation; Addition & Subtraction		Find $-2x^2 - xy^2$ when x	x = -1 and $y = -4$
			$-2x^2 - xy^2 = -2(-1)^2 -$	$(-1)(-4)^2 = -2(1) - (-1)(16) = -2 + 16 = 14$

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# Topic 11: Factorising and substitution in algebra

#### Exercise

1.	Factorise fully				Check your
1.	a. $3y + 12$ b. $7x + 28$ c. $14x + 35$ d. $6x^2 + 24x$ e. $3x^2 + 10x + 1 + 4$ f. $8x^2 + 2x^2 + 10x$	$4x^2 + 4x + 6$	g. h. j. k. I.	$4a^{2}b^{3} - 2ab^{5} + a^{2}b^{4}c$ -9x - 12 9x - 3xy 9x^{3} + 6x^{2} + 12x + 15 4y^{2} + 16y - 8 3a^{3} + 4a + 5a + 15a^{3}	1. a. $3(y + 4)$ b. $7(x + 4)$ c. $7(2x + 4)$ d. $6x(x + 4)$ e. $7x^2 + 1$ f. $10x^2 + 4$ g. $ab^{3}(4a)$
2.	Calculate the value of the a) $2x^2 + y$	expressions if $x = 2$ b) $xy - 3x$	and $y = 7$ c) $\frac{y}{3}$ -	+ <i>x</i>	j. $ds (4c)$ h. $-3(3x)$ i. $3x(3 - 4)$ j. $3(3x^3 + 4)$ k. $4(y^2 + 4)$
3. 4.	Calculate the value of the a) $4x + 5$ Find $4x^2y + 3xy^2 + 2xy$ v	expressions if $x = 2 a$ b) $2x^2 + 3x$ vhen:	and <i>x</i> = 3 + 6		1. $18a^3 +$ 2. a) $2(2)^2 +$ b) $(2)(7) -$ c) $\frac{7}{2} + 2$
	a) $x = 1$ and $y = 2$	b) <i>x</i> = 3 an	d <i>y</i> = –1	c) <i>x</i> = –2 and <i>y</i> = 3	3. a) If $x = 2$ , If $x = 3$ , 4. a) When $x$ $4(1)^2(2)$

Check your answers:
1. a. 3(y + 4)
b. 7(x + 4)
c. 7(2x + 5)
d. 6x(x + 4)
e. $7x^2 + 14x + 7 = 7(x^2 + 2x + 1)$
f. $10x^2 + 10x = 10x(x + 1)$
g. ab³(4a – 2b² + abc)
h. −3(3x + 4)
i. 3x(3 – y)
j. $3(3x^3 + 2x^2 + 4x + 5)$
k. $4(y^2 + 4y - 2)$
I. $18a^3 + 9a = 9a(2a^2 + 1)$
2. a) $2(2)^2 + 7 = 15$
b) $(2)(7) - 3(2) = 8$
c) $\frac{7}{3} + 2 = 2\frac{1}{3} + 2 = 4\frac{1}{3}$
3. a) If x = 2, then 4x + 5 = 13
If $x = 3$ , then $4x + 5 = 17$
4. a) When x = 1 and y = 2
$4(1)^2(2) + 3(1)(2)^2 + 2(1)(2) = 8 + 12 + 4 = 24$
b) When $x = 3$ and $y = -1$
$4(3)^2(-1) + 3(3)(-1)^2 + 2(3)(-1)$
= -36 + 9 - 6 = -33
c) When $x = -2$ and $y = 3$
$4(-2)^{2}(3) + 3(-2)(3)^{2} + 2(-2)(3)$
= 48 - 54 - 12 = -18

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# Topic 12: Linear Equations M-08-121 to M-08-130 p15 – 43

Check that you: understand algebraic expressions	<b>Do you understand</b> <b>these words?</b> Linear equation; solve the equation			Refer to JSS2 Term 3
* Linear equatior	C ns:	DNCEPTS:	Example 3: Solve for x if	6x + 5 = 2x + 9 Change the equation to get the
We can solve line	ar equations if we have e	nough information	the other side)	
about the values of	of the variables in the equ	ation.	6x - 2x + 5 =	2x - 2x + 9 Subtract 2x from both sides of the
Example 1:			equation	
Solve for x if x – 8	3 = 4.		4x + 5 = 9	
We can work out	that x = 12 by trying out d	fferent numbers in the equation.	4x + 5 - 5 = 9	9 – 5 Subtract 5 from both sides of the
We can also solve	e the same linear equation	by isolating the variable and	equation.	
keeping the sides	of the equation balanced	this way:	* Linear equ	ations with fractions:
x – 8 = 4	Change the equa	ion to get x on its own.	Solve for x if	$\frac{2}{2}x - \frac{1}{2} = 4$
	So we want – 8 to	be moved.	$2 \times 1 + 1$	$-4$ $\downarrow$ $\frac{1}{2}$ Add $\frac{1}{2}$ to both aidea
x = 8 + 8 = 4 + 8	adding 8 to both s	an equation must stay equal.	$\frac{-1}{3}x - \frac{-1}{2} + \frac{-1}{2}$	$-4+\frac{1}{2}$ Add $\frac{1}{2}$ to both sides
x = 0 + 0 = 4 + 0 x = 12	Now x is on its or	n and we see that $x = 12$	$\frac{2}{3}x = 4 + \frac{1}{2}$	
X · 0 = 12	We have solved t	le equation.	$\frac{3}{2} \times \frac{2}{2} x = \frac{3}{2}$	$\times (4 + \frac{1}{2})$ Multiply by the reciprocal of $\frac{2}{2}$
Example 2:			$\begin{bmatrix} 2 & 3 & 2 \\ & 3 & & (9) \end{bmatrix}$	27 3
Solve for x if 2x –	3 = 5 Use addition as	the inverse relationship of subtraction.	$x = \frac{1}{2} \times \left(\frac{1}{2}\right)$	$=\frac{1}{4}$
2x – 3 + 3 = 5 + 3	Add 3 to both si	les of the equation. The equation is still equal.	* Solving pro	oblems with linear equations:
2x = 8	Use division as	he inverse relationship to multiplication	We can write	an equation to help us solve word problems.
$\frac{2x}{2} = \frac{8}{2}$	Divide by 2 on b	oth sides so that we can get x on its own.	Example: Eatmata is 16	She is 4 years older than Binta. How old is
x = 4	The equation is	still equal.	Binta?	
<b>Check your solution</b> by substituting $x = 4$ into the question given. $2(4) - 3 = 8 - 3 = 5$		Let Binta's ag	ge be x. So Fatmata is x + 4 = 16. Binta is 12	

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# Topic 12: Linear Equations

Exer	cise			Check your answers:
1.	Solve the equations for the val	riable:		1a) p = 6 b) z =
	a) <i>p</i> – 2 = 4	b) z + 6 = 16	c) $x + 1 = 0$	d) $a = 22$ e) $x =$
	d) <i>a</i> + 1 = 23	e) x + 6 = 10	f) $a - 3 = 9$	$g_{12} = -4$
	g) 7 + <i>z</i> = 3	h) $6 = p + 5$	i) $7x = 14$	2a) $8x - 5x = 14 - 5$
	j) 3 <i>x</i> = 18	k) $x^2 = 4$		3x = 9
2	Find the value of x for each of	the following:		c) $10x - 7x = 18 - 3$
Ζ.		h = 7(22 + 2) = 20	$(-1)^{-1}$	3x = 15
	a) $\delta x + 5 = 5x + 14$	b) $7(x+3) = 28$	c) $10x + 3 = 7x + 18$	(x-5) (
	d) $4(x+6) = 32$	e) $-2x - 8 = 10$	f) -3y = 5y + 16	-2x = 18
3	Solve the linear equations:			x = -9
0.	a) $2x - 1 = 3x$	b) 2(a – 2) + a – 2 = 6	c) $5y - 3 = 2y + 9$	-1 = x
	d) $\frac{3x}{4} = 2$	e) $3(x-5) - 2(x-1) = 7$	f) $5(x + 1) - (x + 2) = 3$	c) 3y = 12 so y = 4 e) 3x - 15 - 2x + 2 = 7
4.	I buy a cup of coffee for Le 8,0	00 and some biscuits that cost Le 2	,000 each. I pay Le 20,000 in total.	x – 13 = 7 so x = 20
	How many biscuits do I buy? L	Jse b for the number of biscuits I buy	l.	4.8,000 + 2,000b = 20,000
5.	The sum of two consecutive	numbers is 77. Let the smaller numb	er be $y$ . Find the other number.	$b = \frac{12,000}{2,000} = 6$
6.	A pencil costs Le y. You buy What is the price of one pencil	4 pencils and a book costing Le 5,00	00. The total cost is Le 13,000.	5. The numbers are y and y + y + 1 = 77 2y = 76
7.	Six buses were used to take 3	24 learners on a trip. Use x to find th	e number of seats on one bus.	6. 4y + 5,000 = 13,000 so
8**.	Ahmed thinks of a number $x$ . Ben and Mo get the same ans	7. 6 buses; x seats each i $324 \div 6 = 54$ . There are		
9**.	The perimeter of a rectangular How long is the field?	field is 40 m. The length of the field	is 4 m longer than the breadth of the field.	8. Ben's number is $6x$ . Mo 6x = 3x + 9 x = 3. Ahmed's numb

1a) p=6	b) z = 10	) c) x = -1
d) a = 22	e) x = 4	f) a = 12
g) z = −4	h) p = 1	i) x = 2
j) x = 6	k) x = +2	or –2
2a) $8x - 5x = 14$	- 5	b) 7 <i>x</i> + 21 = 28
3x = 9		7x = 7
x = 3		x = 1
c) $10x - 7x = 1$	8 – 3	d) 4x + 24 = 32
3x = 1	5	4x = 32 - 24
x = 5	_	4x = 8  so  x = 2
e) $-2x = 10 + 6$	8	f) $-3y - 5y = 16$
-2x = 18		-8y = 16
x = -9		y = -2
3a) -1 = 3x - 2x		b) $3a - 6 = 6$
-1 = x		3a = 12  so  a = 4
c) 3y = 12 so y =	= 4	d) $3x = 8 \text{ so } x = \frac{6}{3}$
e) 3x – 15 – 2x ·	+ 2 = 7	f) 5x + 5 – x – 2 = 3
x – 13 = 7 so	x = 20	4x + 3 = 3
		4x = 0 so $x = 0$
4. 8,000 + 2,000	o = 20,000	
$b = \frac{12}{2.0}$	$\frac{000}{000} = 6$	I bought 6 biscuits.
5. The numbers a	are y and y	+ 1.
y + y + 1 = 77	2y = 76 so	y = 38 and y + 1 = 39
6. 4y + 5,000 = 1	3,000 so 4y	y = 8,000 and y = 2,000
7.6 buses; x sea	ts each is 6	x seats.
324 ÷ 6 = 54.	There are 54	4 seats on each bus.
8. Ben's number	is 6x. Mo's	number is 3x + 9.
6x = 3x + 9	l'a a una ha ri	- <b>2</b>
x = 3. Anmed	i s number i	5 3.
9. P = 100 m. Let	breadth = >	k m, so length = 4 + x.
So $40 = 2(x + 4)$	4 + x)	
40 = 4x + 8		

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#### Topic 13: Cartesian plane M-08-031 to M-08-035 p44 – 58



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#### Topic 13: Cartesian plane

#### Exercise

- 1. What is the name given to the point (0; 0) on the Cartesian plane?
- 2. In the ordered pair (-3; 3) what is the value of the x-coordinate? And the y-coordinate?
- 3. In which quadrant of the Cartesian plane are the following points:

	a) (-5; -2)	b) (1; –2)	c) (3; 2)	d) (–1; 4)
	e) (4; -1)	f) (2; 5)	g) (-1; 4)	h) (–2; –6)
4.	On which axis are each	of the following points		
	a) (-1; 0)	b) (7;0)	c) (0; –4)	d) (0; 10)
	e) (0; –2)	f) (-4; 0)	g) (0; 3)	h) (10; 0)

- 5. Write down the ordered pair for the points A to F plotted on the Cartesian plane.
- 6. y = -2x + 1 is a linear equation.

Complete the table of values for this equation

(-2; -3)



 x
 -2
 -1
 0
 1
 2
 3

 y

 3

Make your own Cartesian plane on squared paper. Plot the points from the table on the Cartesian plane. Join the points to make the graph for y = -2x + 1.



