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## Chapter 5 Test – Linear Inequalities

Grade	8	Chapter	5	Lessons	5-1 to 5-6	sebook ages	282-327 plus the pdf
Student Name					Class	Date	

#### Multiple Choice: CALCULATOR NOT ALLOWED

	Wh	ich of the following is the solution set of the inequality below? $y - 8 \ge -12$
	Α	$\{y y \le -20\}$
1	В	$\{y y \ge -20\}$
	С	$\{y y \le -4\}$
	D	$\{y y \ge -4\}$

	What is a possible solution of the inequality below?									
		-5 > f + 18								
	Α	-33								
2	В	-23								
	С	0								
	D	13								

	Which of the following inequalities will have the solution set graphed below?								
			<b>←</b>						
			-10	0	10				
0	Α	$\frac{m}{2} < 5$							
3	В	$\frac{m}{2} > 5$							
	С	$\frac{m}{-2} < 5$							
	D	$\frac{m}{-2} > 5$							

	What is a possible solution of the inequality below?									
		$-\frac{1}{2}x \le -9$								
4	Α	-18								
	В	-4.5								
	С	0								
	D	22								



### Chapter 5 Test – Linear Inequalities

	Find	Find the solution set for the inequality given as a sentence below.							
	Three times a number minus eighteen is greater than five times the same number minus four.								
5	all real numbers								
Э	В	$\{k k<-7\}$							
	С	$\{k k > -7\}$							
	D	$\left\{k \middle  k > -\frac{11}{4}\right\}$							

	Which of the following is the solution set of the absolute value inequality below?								
		$ n+3 +12 \le 5$							
7	Α	Ø							
'	В	$\{n -10 \ge n \le 4\}$							
<b>C</b> $\{n n \le -4 \text{ or } n \ge 10\}$									
	D	$\{n n \le -10 \text{ or } n \ge 4\}$							

	Point (6, -1) lies on the boundary when $2y + 6 > 4$ is graphed. It is of the inequality.								
	A	<ul><li>(1) dashed</li><li>(2) <u>not</u> a solution</li></ul>							
8	В	<ul><li>(1) solid</li><li>(2) <u>not</u> a solution</li></ul>							
	С	<ul><li>(1) dashed</li><li>(2) a solution</li></ul>							
	D	<ul><li>(1) solid</li><li>(2) a solution</li></ul>							



## Chapter 5 Test – Linear Inequalities

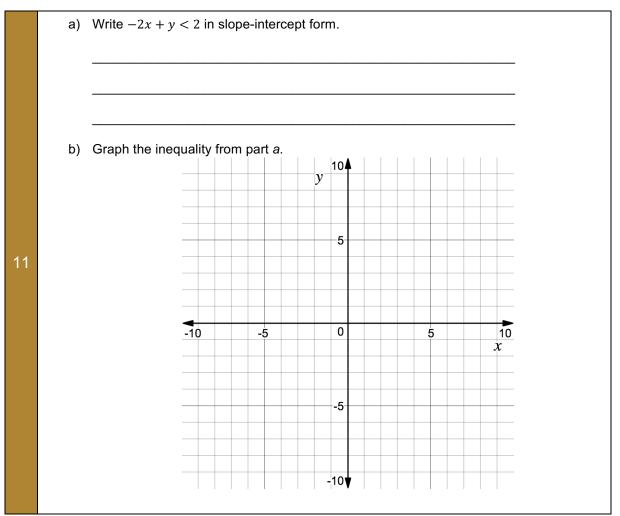
### Constructed Response: CALCULATOR ALLOWED

	Use the	e compound inequality $0 \le 4(5 - x) < 8$ to complete the following:		
	a)	Solve the compound inequality.		
9				
	b)	In the space below, graph the solution set.		
		← →		
	c)	Determine if the graph is a <i>union</i> or an <i>intersection</i> .		
			(	/6 marks)

	Use the	absolute value inequality $\left \frac{-3x-12}{3}\right  \ge 6$ to complete the following:		
	a)	Solve the absolute value inequality.		
10				
	b)	In the space below, graph the solution set.		
		<→	(	/6 marks)



## Chapter 5 Test – Linear Inequalities



Multiple Choice	/8
Constructed Response	/17
Total Marks	/25
Percentage	/100%

Grade	8	Lesson(s)	Lesson 5-1: Solving Inequalities by Addition and Subtraction Lesson 5-2: Solving Inequalities by Multiplication and Division Lesson 5-3: Solving Multi-Step Inequalities Lesson 5-4: Solving Compound Inequalities Lesson 5-5:
			Lesson 5-5: Inequalities Involving Absolute Value
			Lesson 5-6:
			Lesson 5-6: Graphing Inequalities in Two Variables



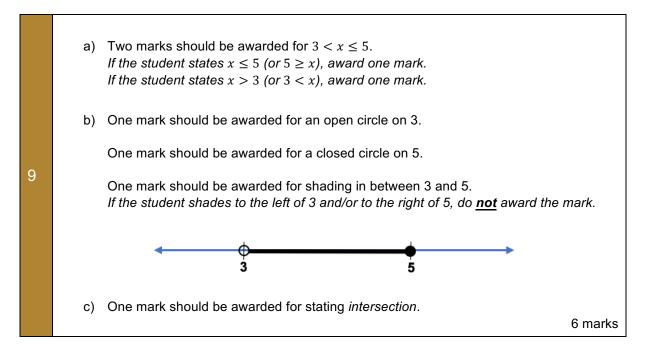
#### Chapter 5 Test – Linear Inequalities

# <mark>Answer Key</mark>

**Multiple Choice** 

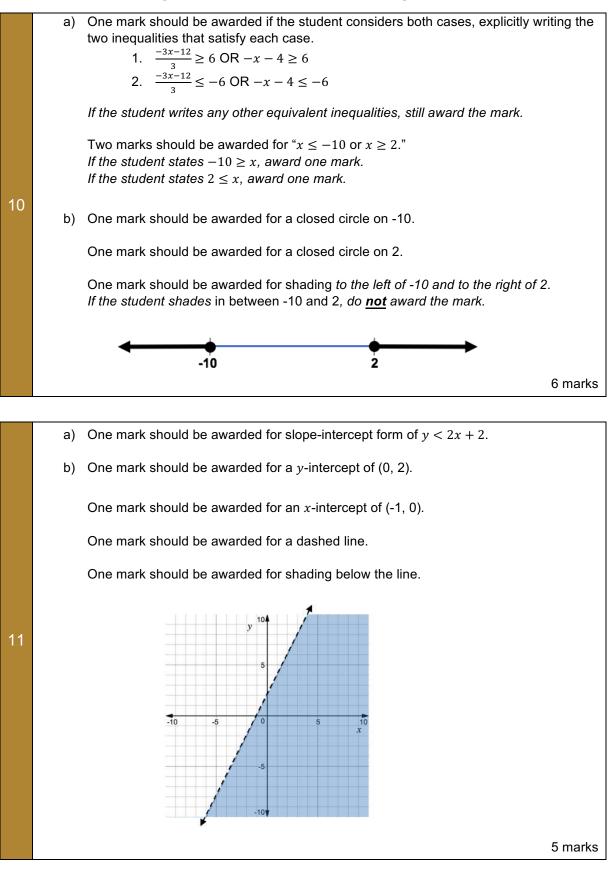
Q1	D
Q2	А
Q3	С
Q4	D
Q5	В
Q6	В
Q7	А
Q8	A

#### **Constructed Response**





#### Chapter 5 Test – Linear Inequalities





Chapter 5 Test – Linear Inequalities

# **Data Analysis Information**

Use the information below to help you determine which student learning outcomes are not being met by the majority of your students. This will help you make determinations about re-teaching, spiraling content not mastered, and implementing other interventions without interrupting the scheme of work.

Question	Lesson	Student Learning Outcome(s)
1	5-1	Solve linear inequalities by using addition.
2	5-1	Solve linear inequalities by using subtraction.
3	5-2	Solve linear inequalities by using multiplication.
4	5-2	Solve linear inequalities by using division.
5	5-3	Solve linear inequalities involving more than one operation.
6	5-4	Solve compound inequalities containing the word <i>and</i> , and graph their solution set.
7	5-5	Solve and graph absolute value inequalities.
8	5-6	Solve inequalities by graphing.
9	5-1 to 5-4	Solve linear inequalities by using addition. Solve linear inequalities by using subtraction. Solve linear inequalities by using multiplication. Solve linear inequalities by using division. Solve linear inequalities involving more than one operation. Solve linear inequalities involving the Distributive Property. Solve compound inequalities containing the word <i>and</i> , and graph their solution set.
10	5-5	Solve and graph absolute value inequalities.
11	5-6	Graph linear inequalities on the coordinate plane.