

Academic Year	2024/2025
العام الدراسي	
Term	1
الفصل	
Subject	Mathematics/Reveal
المادة	الرياضيات/ريفييل
Grade	8
الصف	
Stream	-----
المسار	عام
Number of MCQ عدد الأسئلة الموضوعية	15
Marks of MCQ درجة الأسئلة الموضوعية	4
Number of FRQ عدد الأسئلة المقالية	6
Marks per FRQ الدرجات للأسئلة المقالية	
Type of All Questions نوع كافة الأسئلة	الأسئلة الموضوعية / MCQ/ الأسئلة المقالية / FRQ/
Maximum Overall Grade الدرجة القصوى الممكنة	100
Exam Duration - مدة الامتحان	150 minutes
Mode of Implementation - طريقة التطبيق	SwiftAssess & Paper-Based
Calculator	Not Allowed
الآلة الحاسبة	غير مسموحة

Question*		Learning Outcome/Performance Criteria**	Reference(s) in the Student Book (Arabic Version)	
			المرجع في كتاب الطالب (النسخة العربية)	
السؤال *		نتائج التعلم / معايير الأداء**	Example/Exercise	Page
			مثال/تمرين	الصفحة
الأسئلة المقالية - FRQ				
	1	Write very large and very small numbers using scientific notation	1-10	53
		Perform computations with numbers written in scientific notation	1-6	61
	2	Use the Zero Exponent Rule and the Quotient of Powers Property to simplify expressions with zero and negative integer exponents	1-12	41
		Use the Power of a Power Property and the Power of a Product Property to simplify expressions with integer exponents	1-10	31
	3	Use rational approximations to compare and order real numbers, including irrational numbers	1-7	121
	4	Estimate irrational numbers by approximating their locations on a number line or by truncating their decimal expansions	1-11	109
5	Use the properties of equality to solve equations with variables on each side that have rational coefficients	1-8	135	
6	Identify the slope of a line and interpret it as the rate of change within the context of the problem	1-7	203	
الأسئلة الموضوعية - MCQ	7	Use integer exponents to show repeated multiplication of rational numbers.	1-9	11
	8	Use the Laws of Exponents to multiply and divide monomials with common bases.	1-9	23
	9	Use the Power of a Power Property and the Power of a Product Property to simplify expressions with integer exponents.	1-10	31
	10	Use the Zero Exponent Rule and the Quotient of Powers Property to simplify expressions with zero and negative integer exponents.	1-12	41
	11	Find square and cube roots	1-7	89
	12	Show how the decimal form of a rational number repeats eventually.	Learn	70
			1-12	77
	13	Use square and cube roots to solve equations involving perfect squares and cubes.	1-10	89
	14	Identify irrational numbers and name the set(s) of real numbers to which a given real number belongs.	1-13	99
	15	Write and solve multi-step linear equations with rational coefficients by using the Distributive Property and combining like terms.	Examples	152-153
			1-3	157
	16	Write linear equations in one variable with rational coefficients and use the properties of equality to solve them.	Examples	138-139
1-5			143	
17	Identify the number of solutions of a linear equation in one variable by simplifying each side and comparing coefficients and constants.	1-9	167	
18	Solve multi-step linear equations with rational coefficients by using the Distributive Property and combining like terms.	1-7	149	
19	Graph and compare proportional relationships using words, equations, and tables and interpret the unit rate as the slope of the line.	Examples	177-180	
		1-4	189	
20	Identify similar triangles that fall on the same line in a coordinate plane and show that the slopes of the lines are equal.	Example	208	
		1-5	211	
21	Derive the equation $y = mx$ from the slope formula and use direct variation equations to represent and solve real-world and mathematical problems.	6-11	224	
*	Questions might appear in a different order in the actual exam, or on the exam paper in the case of G3, G4 and G5.			
*	يظهر الأسئلة بترتيب مختلف في الامتحان الفعلي، أو على ورقة الامتحان في حالة الصفوف G3 و G4 و G5			
**	As it appears in the textbook, LMS, and (Main_IP).			
**	يُردت في كتاب الطالب و LMS والخطة الفصلية.			