

Academic Year	2023/2024
العام الدراسي	
Term	1
الفصل	
Subject	Mathematics/Reveal
المادة	الرياضيات/رېڤيل
Grade	8
الصف	
Stream	Advanced
المسار	المتقدم
Number of MCQ	15
عدد الأسئلة الموضوعية	
Marks of MCQ	4
درجة الأسئلة الموضوعية	
Number of FRQ	5
عدد الأسئلة المقالية	
Marks per FRQ	(6-10)
الدرجات الأسئلة المقالية	
Type of All Questions	MCQ/ الموضوعية / الأسئلة المقالية / FRQ
نوع كافة الأسئلة	
Maximum Overall Grade	100
الدرجة القصوى الممكنة	
Exam Duration	150 minutes
مدة الامتحان -	
Mode of Implementation	SwiftAssess & Paper-Based
طريقة التطبيق -	
Calculator	Not Allowed
الآلة الحاسبة	غير مسموحة

Question*	Learning Outcome/Performance Criteria**	Reference(s) in the Student Book (Arabic Version)	
		المراجع في كتاب الطالب (النسخة العربية)	Page
السؤال*	نتائج التعلم / معيار الأداء**	Example/Exercise مثال / تمرين	الصفحة
الأسئلة الموضوعية: MCQ	1	Use integer exponents to show repeated multiplication of rational number	3-9 11
	2	Use the laws of exponents to multiply and divide monomials with common bases.	1-9 23
	3	Use the power of powers property and the power of a product property to simplify expressions with integer exponents. / Use the zero exponent rule and the quotient of powers property to simplify expressions with zero and negative integer exponents.	1-10 1-12 31 41
	4	Write very large and very small numbers using scientific notation	1-6 53
	5	Show how the decimal form of a rational number repeats itself	1-4 77
	6	Convert repeating decimal into a rational number.	5-8 77
	7	Find square and cube roots	1-7 89
	8	Use square and cube roots to solve equations involving perfect squares and cubes	8-12 89-90
	9	Identify irrational numbers and name the set(s) of real numbers to which a given real number belongs	1-11 99
	10	Use the properties of equality to solve equations with variables on each side that have rational coefficients	1-6 135
	11	Write linear equations in one variable with rational coefficients and use the properties of equality to solve them	1-5 143
	12	Solve multi-step linear equations with rational coefficients by using the distributive property and combining like terms	1-7 149
	13	Identify the slope of a line and interpret it as the rate of the change within the context of the problem	1-6 203
	14	Identify similar triangles that fall on the same line in a coordinate plane and show that the slopes of the lines are equal	1-5 211
الأسئلة المقالية: FRQ	15	Derive the equation $y=mx$ from the slope formula and use direct variation equations to represent and solve real-world and mathematical problems	1-7 223-224
	16	Perform computations with numbers written in scientific notation.	1-8 61-62
	17	Estimate irrational numbers by approximating their locations on a number line or by truncating their decimal expansion	10-17 109-110
	18	Use rational approximations to compare and order real numbers, including irrational numbers	1-7 121
	19	Write and solve multi-step linear equations with rational coefficients by using the Distributive property and combining like terms / Identify the number of solutions of a linear equation in one variable by simplifying each side and comparing coefficients and constants.	1-5 1-9 157-158 168
	20	Write equations of the form $y=mx+b$ when given a table, graph, or verbal description.	11-16 236
*	Questions might appear in a different order in the actual exam, or on the exam paper in the case of G3, G4 and G5.		
*	قد تظهر الأسئلة بترتيب مختلف في الامتحان الفعلي، أو على ورقة الامتحان في حالة الصفوف G3، G4 و G5		
**	As it appears in the textbook, LMS, and (Main_IP).		
**	كما وردت في كتاب الطالب وLMS والخطة القصديرية.		