

Subject	Mathematics
Grade	8
Stream	Elite
Number of Questions	25
Type of Questions	Multiple Choice
Calculator	NOT Allowed
Marks per Question	5
Maximum Overall Grade	100*
Exam Duration	120 minutes
Mode of Implementation	SwiftAssess

Notes:	
* Best 20 answers out of 25 will count. Example: 14 correct answers yield a grade of 70/100, while 20 and 23 correct answers yield a (full) grade of 100/100 each.	
** Questions might appear in a different order in the actual exam.	
*** X-Y. means all examples from X. to Y. For example: 1.-15. means all examples from 1. to 5.; that is, 1., 2., 3., 4., 5., 6., 7., 8., 9., 10., 11., 12., 13., 14., and 15.	
**** Page numbers are as per the Reveal Integrated I textbook printed version.	

Q#	Learning Outcome	Textbook Reference	
**	(as it appears in the Scheme of Work)	Example(s)***	Page(s)****
1.	Solve systems of equations by using the substitution method.	1.-15.	403
2.	Solve systems of equations by eliminating a variable using addition.	28.-30.	410
3.	Solve systems of equations by eliminating a variable using multiplication and addition.	17.-20.	418
4.	Recognize situations modeled by linear or exponential functions.	1.-4.	437
5.	Use transformations to identify exponential functions from graphs and write equations of exponential functions.	1.-12.	447
6.	Create equations and solve problems involving exponential growth.	11.-27.	457-459
7.	Use the properties of exponents to transform expressions for exponential functions.	1.-5.	463
8.	Identify and generate geometric sequences.	1.-12.	469
9.	Write arithmetic and geometric sequences recursively and use them to model situations.	7.-12.	477
10.	Determine measures of spread, including the range and interquartile range, of a data set.	6.-10.	513
11.	Interpret differences in the shapes of distributions.	3.-6.	519
12.	Describe the effects that linear transformations have on measures of center and spread.	5.-8.	529
13.	Organize categorical data in a two-way frequency table.	5.-10.	537
14.	Identify points, lines, and planes.	25.-28.	566
15.	Apply the definition of congruent line segments to find missing values.	28.-33.	574
16.	Find the distance between two points on the coordinate plane.	31.-42.	583
17.	Find a point that partitions a directed line segment on a number line in a given ratio.	23.-25.	591
18.	Find a point on a directed line segment on the coordinate plane that is a given fractional distance from the initial point.	1.-13.	597
19.	Find the coordinates of the midpoint or endpoint of a line segment on the coordinate plane.	33.-38.	606
20.	Analyze figures using the characteristics of adjacent angles, linear pairs of angles, and vertical angles.	15.-17.	622
		34.-36.	623
21.	Calculate angle measures using the characteristics of complementary and supplementary angles.	1.-10.	631
22.	Find perimeters, circumferences, and areas of two-dimensional geometric shapes.	1.-6.	641
23.	Calculate the coordinates of the vertices of images given the coordinates of the preimages.	9.-21.	653-654
24.	Calculate surface areas and volumes.	20.-24.	665
25.	Calculate surface areas of three-dimensional figures represented by nets, and determine the correct nets for three-dimensional geometric figures.	9.-18.	676