

Appendix 1: List of countries and territories included in the study									
Country/Territory	Year	Population (millions)	GDP (billion USD)	Life expectancy (years)	Infant mortality rate (per 1,000 live births)	Maternal mortality ratio (per 100,000 live births)	Prevalence of HIV (percentage)	Prevalence of TB (per 100,000 people)	Prevalence of malaria (per 100,000 people)
Algeria	2019	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2020	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2021	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2022	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2023	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2024	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2025	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2026	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2027	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2028	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2029	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2030	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2031	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2032	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2033	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2034	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2035	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2036	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2037	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2038	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2039	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2040	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2041	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2042	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2043	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2044	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2045	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2046	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2047	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2048	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2049	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2050	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2051	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2052	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2053	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2054	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2055	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2056	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2057	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2058	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2059	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2060	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2061	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2062	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2063	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2064	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2065	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2066	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2067	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2068	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2069	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2070	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2071	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2072	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2073	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2074	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2075	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2076	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2077	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2078	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2079	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2080	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2081	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2082	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2083	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2084	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2085	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2086	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2087	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2088	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2089	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2090	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2091	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2092	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2093	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2094	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2095	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2096	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2097	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2098	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2099	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0
Algeria	2100	4.1	21.5	75.5	10.5	15.0	0.1	15.0	0.0

Sl. No.	Topic	Sub-Topic	Concepts	Formulas	Diagrams	Experiments	Projects	Assignments	Quizzes	Exams	Grading	Feedback	Comments
1	Mathematics	Algebra	Linear Equations, Quadratic Equations, Functions	$y = mx + c$, $x^2 + bx + c = 0$	Graphs of Linear and Quadratic Functions	Graphing Linear and Quadratic Functions	Designing a Linear and Quadratic Function	Graphing Linear and Quadratic Functions	Graphing Linear and Quadratic Functions	Graphing Linear and Quadratic Functions	Graphing Linear and Quadratic Functions	Graphing Linear and Quadratic Functions	Graphing Linear and Quadratic Functions
2	Mathematics	Geometry	Area and Perimeter, Volume and Surface Area, Similar Figures	$A = \frac{1}{2}bh$, $V = \frac{1}{3}bh$	Area and Perimeter of Various Figures	Area and Perimeter of Various Figures	Area and Perimeter of Various Figures	Area and Perimeter of Various Figures	Area and Perimeter of Various Figures	Area and Perimeter of Various Figures	Area and Perimeter of Various Figures	Area and Perimeter of Various Figures	Area and Perimeter of Various Figures
3	Mathematics	Calculus	Differentiation, Integration, Limits	$\frac{d}{dx}x^n = nx^{n-1}$, $\int x^n dx = \frac{x^{n+1}}{n+1}$	Graphs of Functions and Their Derivatives	Graphs of Functions and Their Derivatives	Graphs of Functions and Their Derivatives	Graphs of Functions and Their Derivatives	Graphs of Functions and Their Derivatives	Graphs of Functions and Their Derivatives	Graphs of Functions and Their Derivatives	Graphs of Functions and Their Derivatives	Graphs of Functions and Their Derivatives
4	Science	Physics	Mechanics, Electricity, Magnetism, Optics	$F = ma$, $V = IR$, $B = \frac{\mu_0 I}{2\pi r}$	Diagrams of Mechanical Systems, Electrical Circuits, Magnetic Fields, and Optical Systems	Diagrams of Mechanical Systems, Electrical Circuits, Magnetic Fields, and Optical Systems	Diagrams of Mechanical Systems, Electrical Circuits, Magnetic Fields, and Optical Systems	Diagrams of Mechanical Systems, Electrical Circuits, Magnetic Fields, and Optical Systems	Diagrams of Mechanical Systems, Electrical Circuits, Magnetic Fields, and Optical Systems	Diagrams of Mechanical Systems, Electrical Circuits, Magnetic Fields, and Optical Systems	Diagrams of Mechanical Systems, Electrical Circuits, Magnetic Fields, and Optical Systems	Diagrams of Mechanical Systems, Electrical Circuits, Magnetic Fields, and Optical Systems	Diagrams of Mechanical Systems, Electrical Circuits, Magnetic Fields, and Optical Systems
5	Science	Chemistry	Atomic Structure, Chemical Bonding, Chemical Reactions, Acids and Bases	$E = mc^2$, $\Delta H = \sum \Delta H_f^\circ(\text{products}) - \sum \Delta H_f^\circ(\text{reactants})$	Diagrams of Atomic Structure, Chemical Bonding, and Chemical Reactions	Diagrams of Atomic Structure, Chemical Bonding, and Chemical Reactions	Diagrams of Atomic Structure, Chemical Bonding, and Chemical Reactions	Diagrams of Atomic Structure, Chemical Bonding, and Chemical Reactions	Diagrams of Atomic Structure, Chemical Bonding, and Chemical Reactions	Diagrams of Atomic Structure, Chemical Bonding, and Chemical Reactions	Diagrams of Atomic Structure, Chemical Bonding, and Chemical Reactions	Diagrams of Atomic Structure, Chemical Bonding, and Chemical Reactions	Diagrams of Atomic Structure, Chemical Bonding, and Chemical Reactions
6	Science	Biology	Cell Structure and Function, Genetics, Ecology, Evolution	$\Delta G = \Delta H - T\Delta S$, $\Delta S = \frac{\Delta H}{T}$	Diagrams of Cell Structure and Function, Genetics, Ecology, and Evolution	Diagrams of Cell Structure and Function, Genetics, Ecology, and Evolution	Diagrams of Cell Structure and Function, Genetics, Ecology, and Evolution	Diagrams of Cell Structure and Function, Genetics, Ecology, and Evolution	Diagrams of Cell Structure and Function, Genetics, Ecology, and Evolution	Diagrams of Cell Structure and Function, Genetics, Ecology, and Evolution	Diagrams of Cell Structure and Function, Genetics, Ecology, and Evolution	Diagrams of Cell Structure and Function, Genetics, Ecology, and Evolution	Diagrams of Cell Structure and Function, Genetics, Ecology, and Evolution
7	Mathematics	Statistics	Probability, Descriptive Statistics, Inferential Statistics	$P(A \cup B) = P(A) + P(B) - P(A \cap B)$, $\bar{X} = \frac{\sum x_i}{n}$	Diagrams of Probability, Descriptive Statistics, and Inferential Statistics	Diagrams of Probability, Descriptive Statistics, and Inferential Statistics	Diagrams of Probability, Descriptive Statistics, and Inferential Statistics	Diagrams of Probability, Descriptive Statistics, and Inferential Statistics	Diagrams of Probability, Descriptive Statistics, and Inferential Statistics	Diagrams of Probability, Descriptive Statistics, and Inferential Statistics	Diagrams of Probability, Descriptive Statistics, and Inferential Statistics	Diagrams of Probability, Descriptive Statistics, and Inferential Statistics	Diagrams of Probability, Descriptive Statistics, and Inferential Statistics
8	Mathematics	Trigonometry	Trigonometric Functions, Trigonometric Identities, Trigonometric Equations	$\sin^2 \theta + \cos^2 \theta = 1$, $\tan \theta = \frac{\sin \theta}{\cos \theta}$	Diagrams of Trigonometric Functions, Trigonometric Identities, and Trigonometric Equations	Diagrams of Trigonometric Functions, Trigonometric Identities, and Trigonometric Equations	Diagrams of Trigonometric Functions, Trigonometric Identities, and Trigonometric Equations	Diagrams of Trigonometric Functions, Trigonometric Identities, and Trigonometric Equations	Diagrams of Trigonometric Functions, Trigonometric Identities, and Trigonometric Equations	Diagrams of Trigonometric Functions, Trigonometric Identities, and Trigonometric Equations	Diagrams of Trigonometric Functions, Trigonometric Identities, and Trigonometric Equations	Diagrams of Trigonometric Functions, Trigonometric Identities, and Trigonometric Equations	Diagrams of Trigonometric Functions, Trigonometric Identities, and Trigonometric Equations
9	Mathematics	Number Theory	Prime Numbers, Divisibility, Modular Arithmetic, Diophantine Equations	$a \equiv b \pmod{m}$, $a \cdot b \equiv a \cdot b \pmod{m}$	Diagrams of Prime Numbers, Divisibility, Modular Arithmetic, and Diophantine Equations	Diagrams of Prime Numbers, Divisibility, Modular Arithmetic, and Diophantine Equations	Diagrams of Prime Numbers, Divisibility, Modular Arithmetic, and Diophantine Equations	Diagrams of Prime Numbers, Divisibility, Modular Arithmetic, and Diophantine Equations	Diagrams of Prime Numbers, Divisibility, Modular Arithmetic, and Diophantine Equations	Diagrams of Prime Numbers, Divisibility, Modular Arithmetic, and Diophantine Equations	Diagrams of Prime Numbers, Divisibility, Modular Arithmetic, and Diophantine Equations	Diagrams of Prime Numbers, Divisibility, Modular Arithmetic, and Diophantine Equations	Diagrams of Prime Numbers, Divisibility, Modular Arithmetic, and Diophantine Equations
10	Mathematics	Discrete Mathematics	Combinatorics, Graph Theory, Set Theory, Logic	$n! = n \cdot (n-1) \cdot (n-2) \cdot \dots \cdot 1$, $ A \cup B = A + B - A \cap B $	Diagrams of Combinatorics, Graph Theory, Set Theory, and Logic	Diagrams of Combinatorics, Graph Theory, Set Theory, and Logic	Diagrams of Combinatorics, Graph Theory, Set Theory, and Logic	Diagrams of Combinatorics, Graph Theory, Set Theory, and Logic	Diagrams of Combinatorics, Graph Theory, Set Theory, and Logic	Diagrams of Combinatorics, Graph Theory, Set Theory, and Logic	Diagrams of Combinatorics, Graph Theory, Set Theory, and Logic	Diagrams of Combinatorics, Graph Theory, Set Theory, and Logic	Diagrams of Combinatorics, Graph Theory, Set Theory, and Logic
11	Mathematics	Real Analysis	Real Numbers, Real Functions, Real Integrals, Real Derivatives	$\lim_{n \rightarrow \infty} \frac{1}{n} = 0$, $\lim_{n \rightarrow \infty} \frac{1}{n^2} = 0$	Diagrams of Real Numbers, Real Functions, Real Integrals, and Real Derivatives	Diagrams of Real Numbers, Real Functions, Real Integrals, and Real Derivatives	Diagrams of Real Numbers, Real Functions, Real Integrals, and Real Derivatives	Diagrams of Real Numbers, Real Functions, Real Integrals, and Real Derivatives	Diagrams of Real Numbers, Real Functions, Real Integrals, and Real Derivatives	Diagrams of Real Numbers, Real Functions, Real Integrals, and Real Derivatives	Diagrams of Real Numbers, Real Functions, Real Integrals, and Real Derivatives	Diagrams of Real Numbers, Real Functions, Real Integrals, and Real Derivatives	Diagrams of Real Numbers, Real Functions, Real Integrals, and Real Derivatives
12	Mathematics	Complex Analysis	Complex Numbers, Complex Functions, Complex Integrals, Complex Derivatives	$i^2 = -1$, $e^{i\theta} = \cos \theta + i \sin \theta$	Diagrams of Complex Numbers, Complex Functions, Complex Integrals, and Complex Derivatives	Diagrams of Complex Numbers, Complex Functions, Complex Integrals, and Complex Derivatives	Diagrams of Complex Numbers, Complex Functions, Complex Integrals, and Complex Derivatives	Diagrams of Complex Numbers, Complex Functions, Complex Integrals, and Complex Derivatives	Diagrams of Complex Numbers, Complex Functions, Complex Integrals, and Complex Derivatives	Diagrams of Complex Numbers, Complex Functions, Complex Integrals, and Complex Derivatives	Diagrams of Complex Numbers, Complex Functions, Complex Integrals, and Complex Derivatives	Diagrams of Complex Numbers, Complex Functions, Complex Integrals, and Complex Derivatives	Diagrams of Complex Numbers, Complex Functions, Complex Integrals, and Complex Derivatives
13	Mathematics	Functional Analysis	Functional Spaces, Functional Operators, Functional Equations, Functional Inequalities	$\ x\ = \sqrt{x \cdot x}$, $\ Ax\ \leq \ A\ \ x\ $	Diagrams of Functional Spaces, Functional Operators, Functional Equations, and Functional Inequalities	Diagrams of Functional Spaces, Functional Operators, Functional Equations, and Functional Inequalities	Diagrams of Functional Spaces, Functional Operators, Functional Equations, and Functional Inequalities	Diagrams of Functional Spaces, Functional Operators, Functional Equations, and Functional Inequalities	Diagrams of Functional Spaces, Functional Operators, Functional Equations, and Functional Inequalities	Diagrams of Functional Spaces, Functional Operators, Functional Equations, and Functional Inequalities	Diagrams of Functional Spaces, Functional Operators, Functional Equations, and Functional Inequalities	Diagrams of Functional Spaces, Functional Operators, Functional Equations, and Functional Inequalities	Diagrams of Functional Spaces, Functional Operators, Functional Equations, and Functional Inequalities
14	Mathematics	Mathematical Physics	Quantum Mechanics, Relativity, Cosmology, Astrophysics	$E = mc^2$, $\Delta E = \hbar \omega$	Diagrams of Quantum Mechanics, Relativity, Cosmology, and Astrophysics	Diagrams of Quantum Mechanics, Relativity, Cosmology, and Astrophysics	Diagrams of Quantum Mechanics, Relativity, Cosmology, and Astrophysics	Diagrams of Quantum Mechanics, Relativity, Cosmology, and Astrophysics	Diagrams of Quantum Mechanics, Relativity, Cosmology, and Astrophysics	Diagrams of Quantum Mechanics, Relativity, Cosmology, and Astrophysics	Diagrams of Quantum Mechanics, Relativity, Cosmology, and Astrophysics	Diagrams of Quantum Mechanics, Relativity, Cosmology, and Astrophysics	Diagrams of Quantum Mechanics, Relativity, Cosmology, and Astrophysics
15	Mathematics	Mathematical Biology	Population Dynamics, Epidemiology, Ecology, Evolution	$\frac{dN}{dt} = rN(1 - \frac{N}{K})$, $\frac{dI}{dt} = \beta I(N - I) - \gamma I$	Diagrams of Population Dynamics, Epidemiology, Ecology, and Evolution	Diagrams of Population Dynamics, Epidemiology, Ecology, and Evolution	Diagrams of Population Dynamics, Epidemiology, Ecology, and Evolution	Diagrams of Population Dynamics, Epidemiology, Ecology, and Evolution	Diagrams of Population Dynamics, Epidemiology, Ecology, and Evolution	Diagrams of Population Dynamics, Epidemiology, Ecology, and Evolution	Diagrams of Population Dynamics, Epidemiology, Ecology, and Evolution	Diagrams of Population Dynamics, Epidemiology, Ecology, and Evolution	Diagrams of Population Dynamics, Epidemiology, Ecology, and Evolution
16	Mathematics	Mathematical Economics	Game Theory, Optimization, Mathematical Finance, Mathematical Statistics	$\max_x f(x)$, $\min_x f(x)$	Diagrams of Game Theory, Optimization, Mathematical Finance, and Mathematical Statistics	Diagrams of Game Theory, Optimization, Mathematical Finance, and Mathematical Statistics	Diagrams of Game Theory, Optimization, Mathematical Finance, and Mathematical Statistics	Diagrams of Game Theory, Optimization, Mathematical Finance, and Mathematical Statistics	Diagrams of Game Theory, Optimization, Mathematical Finance, and Mathematical Statistics	Diagrams of Game Theory, Optimization, Mathematical Finance, and Mathematical Statistics	Diagrams of Game Theory, Optimization, Mathematical Finance, and Mathematical Statistics	Diagrams of Game Theory, Optimization, Mathematical Finance, and Mathematical Statistics	Diagrams of Game Theory, Optimization, Mathematical Finance, and Mathematical Statistics

[illegible]

1	Mathematics	Algebra	Linear Equations	$ax + b = c$	$2x + 3 = 7$	1. $3x + 5 = 14$ 2. $4x - 2 = 10$	1. $5x + 7 = 22$ 2. $3x - 4 = 11$	1. $2x + 1 = 5$ 2. $4x - 3 = 9$	1. $3x + 2 = 8$ 2. $5x - 1 = 14$	1. $2x + 3 = 7$ 2. $4x - 2 = 10$	1. $3x + 5 = 14$ 2. $4x - 2 = 10$	1. $5x + 7 = 22$ 2. $3x - 4 = 11$
2	Mathematics	Algebra	Quadratic Equations	$ax^2 + bx + c = 0$	$x^2 - 5x + 6 = 0$	1. $x^2 - 3x + 2 = 0$ 2. $x^2 + 4x + 4 = 0$	1. $x^2 - 6x + 8 = 0$ 2. $x^2 + 5x + 6 = 0$	1. $x^2 - 7x + 12 = 0$ 2. $x^2 + 8x + 15 = 0$	1. $x^2 - 9x + 14 = 0$ 2. $x^2 + 10x + 21 = 0$	1. $x^2 - 11x + 18 = 0$ 2. $x^2 + 12x + 35 = 0$	1. $x^2 - 13x + 40 = 0$ 2. $x^2 + 14x + 49 = 0$	1. $x^2 - 15x + 50 = 0$ 2. $x^2 + 16x + 64 = 0$
3	Mathematics	Geometry	Area of a Triangle	$\frac{1}{2} \times \text{base} \times \text{height}$	$\frac{1}{2} \times 6 \times 4 = 12$	1. $\frac{1}{2} \times 8 \times 5 = 20$ 2. $\frac{1}{2} \times 10 \times 3 = 15$	1. $\frac{1}{2} \times 12 \times 7 = 42$ 2. $\frac{1}{2} \times 15 \times 4 = 30$	1. $\frac{1}{2} \times 20 \times 6 = 60$ 2. $\frac{1}{2} \times 25 \times 3 = 37.5$	1. $\frac{1}{2} \times 30 \times 8 = 120$ 2. $\frac{1}{2} \times 35 \times 5 = 87.5$	1. $\frac{1}{2} \times 40 \times 10 = 200$ 2. $\frac{1}{2} \times 45 \times 6 = 135$	1. $\frac{1}{2} \times 50 \times 12 = 300$ 2. $\frac{1}{2} \times 55 \times 8 = 220$	1. $\frac{1}{2} \times 60 \times 15 = 450$ 2. $\frac{1}{2} \times 65 \times 10 = 325$
4	Mathematics	Geometry	Area of a Circle	πr^2	$\pi \times 3^2 = 9\pi$	1. $\pi \times 4^2 = 16\pi$ 2. $\pi \times 5^2 = 25\pi$	1. $\pi \times 6^2 = 36\pi$ 2. $\pi \times 7^2 = 49\pi$	1. $\pi \times 8^2 = 64\pi$ 2. $\pi \times 9^2 = 81\pi$	1. $\pi \times 10^2 = 100\pi$ 2. $\pi \times 11^2 = 121\pi$	1. $\pi \times 12^2 = 144\pi$ 2. $\pi \times 13^2 = 169\pi$	1. $\pi \times 14^2 = 196\pi$ 2. $\pi \times 15^2 = 225\pi$	1. $\pi \times 16^2 = 256\pi$ 2. $\pi \times 17^2 = 289\pi$
5	Mathematics	Geometry	Volume of a Sphere	$\frac{4}{3} \pi r^3$	$\frac{4}{3} \pi \times 3^3 = 36\pi$	1. $\frac{4}{3} \pi \times 4^3 = 64\pi$ 2. $\frac{4}{3} \pi \times 5^3 = 100\pi$	1. $\frac{4}{3} \pi \times 6^3 = 96\pi$ 2. $\frac{4}{3} \pi \times 7^3 = 137\pi$	1. $\frac{4}{3} \pi \times 8^3 = 201\pi$ 2. $\frac{4}{3} \pi \times 9^3 = 271\pi$	1. $\frac{4}{3} \pi \times 10^3 = 419\pi$ 2. $\frac{4}{3} \pi \times 11^3 = 557\pi$	1. $\frac{4}{3} \pi \times 12^3 = 724\pi$ 2. $\frac{4}{3} \pi \times 13^3 = 917\pi$	1. $\frac{4}{3} \pi \times 14^3 = 1149\pi$ 2. $\frac{4}{3} \pi \times 15^3 = 1414\pi$	1. $\frac{4}{3} \pi \times 16^3 = 1678\pi$ 2. $\frac{4}{3} \pi \times 17^3 = 2053\pi$
6	Mathematics	Calculus	Differentiation	$\frac{d}{dx} x^n = nx^{n-1}$	$\frac{d}{dx} x^2 = 2x$	1. $\frac{d}{dx} x^3 = 3x^2$ 2. $\frac{d}{dx} x^4 = 4x^3$	1. $\frac{d}{dx} x^5 = 5x^4$ 2. $\frac{d}{dx} x^6 = 6x^5$	1. $\frac{d}{dx} x^7 = 7x^6$ 2. $\frac{d}{dx} x^8 = 8x^7$	1. $\frac{d}{dx} x^9 = 9x^8$ 2. $\frac{d}{dx} x^{10} = 10x^9$	1. $\frac{d}{dx} x^{11} = 11x^{10}$ 2. $\frac{d}{dx} x^{12} = 12x^{11}$	1. $\frac{d}{dx} x^{13} = 13x^{12}$ 2. $\frac{d}{dx} x^{14} = 14x^{13}$	1. $\frac{d}{dx} x^{15} = 15x^{14}$ 2. $\frac{d}{dx} x^{16} = 16x^{15}$
7	Mathematics	Calculus	Integration	$\int x^n dx = \frac{x^{n+1}}{n+1} + C$	$\int x^2 dx = \frac{x^3}{3} + C$	1. $\int x^3 dx = \frac{x^4}{4} + C$ 2. $\int x^4 dx = \frac{x^5}{5} + C$	1. $\int x^5 dx = \frac{x^6}{6} + C$ 2. $\int x^6 dx = \frac{x^7}{7} + C$	1. $\int x^7 dx = \frac{x^8}{8} + C$ 2. $\int x^8 dx = \frac{x^9}{9} + C$	1. $\int x^9 dx = \frac{x^{10}}{10} + C$ 2. $\int x^{10} dx = \frac{x^{11}}{11} + C$	1. $\int x^{11} dx = \frac{x^{12}}{12} + C$ 2. $\int x^{12} dx = \frac{x^{13}}{13} + C$	1. $\int x^{13} dx = \frac{x^{14}}{14} + C$ 2. $\int x^{14} dx = \frac{x^{15}}{15} + C$	1. $\int x^{15} dx = \frac{x^{16}}{16} + C$ 2. $\int x^{16} dx = \frac{x^{17}}{17} + C$
8	Mathematics	Statistics	Mean	$\frac{\sum x}{n}$	$\frac{10 + 20 + 30}{3} = 20$	1. $\frac{40 + 50 + 60}{3} = 50$ 2. $\frac{70 + 80 + 90}{3} = 80$	1. $\frac{100 + 110 + 120}{3} = 110$ 2. $\frac{130 + 140 + 150}{3} = 140$	1. $\frac{160 + 170 + 180}{3} = 170$ 2. $\frac{190 + 200 + 210}{3} = 200$	1. $\frac{220 + 230 + 240}{3} = 230$ 2. $\frac{250 + 260 + 270}{3} = 260$	1. $\frac{280 + 290 + 300}{3} = 290$ 2. $\frac{310 + 320 + 330}{3} = 320$	1. $\frac{340 + 350 + 360}{3} = 350$ 2. $\frac{370 + 380 + 390}{3} = 380$	1. $\frac{400 + 410 + 420}{3} = 410$ 2. $\frac{430 + 440 + 450}{3} = 440$
9	Mathematics	Statistics	Median	Value in the middle of the data set	10, 20, 30, 40, 50 Median = 30	1. 10, 20, 30, 40, 50, 60 Median = 35 2. 10, 20, 30, 40, 50, 60, 70 Median = 40	1. 10, 20, 30, 40, 50, 60, 70 Median = 45 2. 10, 20, 30, 40, 50, 60, 70, 80 Median = 50	1. 10, 20, 30, 40, 50, 60, 70, 80 Median = 55 2. 10, 20, 30, 40, 50, 60, 70, 80, 90 Median = 60	1. 10, 20, 30, 40, 50, 60, 70, 80, 90 Median = 65 2. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 Median = 70	1. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 Median = 75 2. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110 Median = 80	1. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110 Median = 85 2. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120 Median = 90	1. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120 Median = 95 2. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130 Median = 100

[illegible]