

JUMP Math Correlation to the New BC Curriculum – Grade 8

Legend

NS Number Sense

PA Patterns & Algebra

ME Measurement

G Geometry

PDM Probability & Data Management

Italicized elaborations are not addressed in JUMP Math lessons.

BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
perfect squares and cubes		1	3	58–63
	using colour tiles, pictures, or multi-link cubes	1	3	58–59
	building the number or using prime factorization	1	3	58–62
BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
square and cube roots		1	3	60–63
	<i>finding the cube root of 125</i>	Not addressed		
	<i>finding the square root of 16/169</i>	Not addressed		
	estimating the square root of 30	1	3	63
BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
percents less than 1 and greater than 100 (decimal and fractional percents)		2	1	82–99
	A worker's salary increased 122% in three years. If her salary is now \$93,940, what was it originally?	2	1	94, 98, 99
	What is $\frac{1}{2}\%$ of 1 billion?	2	1	94, 95
	The population of Vancouver increased by 3.25%. What is the population if it was approximately 603,500 people last year?	2	1	94, 95
	<i>beading</i>	Not addressed		
BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
numerical proportional reasoning (rates, ratio, proportions, and percent)		1	6	1–4
		2	1	82–103
	two-term and three-term ratios, real-life examples and problems	1	6	1–4
		2	1	100–103
	A string is cut into three pieces whose lengths form a ratio of 3:5:7. If the string was 105 cm long, how long are the pieces?	2	1	100
	<i>creating a cedar drum box of proportions that use ratios to create differences in pitch and tone</i>	Not addressed		
	<i>paddle making</i>	Not addressed		

JUMP Math Correlation to the New BC Curriculum – Grade 8

BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
operations with fractions (addition, subtraction, multiplication, division, and order of operations)		1	1	8, 17–33
	includes the use of brackets, but excludes exponents	1	1	28
	using pattern blocks or Cuisenaire Rods	1	1	8
	simplifying $\frac{1}{2} \div 9/6 \times (7 - 4/5)$	1	1	33
	<i>drumming and song: 1/2, 1/4, 1/8, whole notes, dot bars, rests = one beat</i>	Not addressed		
	<i>changing tempos of traditional songs dependent on context of use</i>	Not addressed		
	<i>proportional sharing of harvests based on family size</i>	Not addressed		
BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
discrete linear relations (extended to larger numbers, limited to integers)		1	8	8
		2	4	20–32
	two-variable discrete linear relations	2	4	20, 23, 25–30
	expressions, table of values, and graphs	2	4	20–30
	scale values (e.g., tick marks on axis represent 5 units instead of 1)	2	4	25–30
	four quadrants, integral coordinates	1	8	8
BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
expressions — writing and evaluating using substitution		1	2	5–15
		2	4	16–24
	using an expression to describe a relationship	1	2	5, 6, 15
		2	4	16–24
	evaluating $0.5n - 3n + 25$, if $n = 14$	1	2	6
		2	4	16
BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
two-step equations with integer coefficients, constants, and solutions		1	2	7–15
		2	4	17–19
	solving and verifying $3x - 4 = -12$	1	2	7–10
		2	4	16–19
	modelling the preservation of equality (e.g., using a balance, manipulatives, algebra tiles, diagrams)	1	2	8, 11, 13
		2	4	18, 19
	<i>spirit canoe journey calculations</i>	Not addressed		

JUMP Math Correlation to the New BC Curriculum – Grade 8

BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
surface area and volume of regular solids, including triangular and other right prisms and cylinders		2	6	9–18
	exploring strategies to determine the surface area and volume of a regular solid using objects, a net, 3D design software	2	6	9–18
	volume = area of the base \times height	2	6	11–13
	surface area = sum of the areas of each side	2	6	16, 17
BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
Pythagorean theorem		1	5	1–7
	modelling the Pythagorean theorem	1	5	3, 4
	finding a missing side of a right triangle	1	5	4
	deriving the Pythagorean theorem	1	5	3–5
	<i>constructing canoe paths and landings given current on a river</i>	Not addressed		
	<i>First Peoples constellations</i>	Not addressed		
BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
construction, views, and nets of 3D objects		2	6	9, 10
		2	7	42–46
	top, front, and side views of 3D objects	2	6	9, 10
		2	7	42–46
	matching a given net to the 3D object it represents	2	6	10
	drawing and interpreting top, front, and side views of 3D objects	2	7	42–46
	constructing 3D objects with nets	2	6	10
	<i>using design software to create 3D objects from nets</i>	Not addressed		
	<i>bentwood boxes, lidded baskets, packs</i>	Not addressed		
BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
central tendency		2	8	15–17
	mean, median, and mode	2	8	15–17
BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
theoretical probability with two independent events		2	8	18–25
	with two independent events: sample space (e.g., using tree diagram, table, graphic organizer)	2	8	18–21
	rolling a 5 on a fair die and flipping a head on a fair coin is $\frac{1}{6} \times \frac{1}{2} = \frac{1}{12}$	2	8	22, 23
	<i>deciding whether a spinner in a game is fair</i>	Not addressed		

JUMP Math Correlation to the New BC Curriculum – Grade 8

BC Curriculum		JUMP Math Lessons		
Content	Elaboration	Part	Unit	Lessons
financial literacy — best buys		2	1	89–102
	coupons, proportions, unit price, products and services	2	1	89, 92, 95, 98
	proportional reasoning strategies (e.g., unit rate, equivalent fractions given prices and quantities)	2	1	89, 90, 99, 101, 102