



COURSE 1

Core-Plus Mathematics

Contemporary Mathematics in Context

© 2008

STANDARDS	PAGE REFERENCES
M11.A Numbers and Operations	
ASSESSMENT ANCHOR	
M11.A.1 Demonstrate an understanding of numbers, ways of representing numbers, relationships among numbers and number systems.	
M11.A.1.1 Represent and/or use numbers in equivalent forms (e.g., integers, fractions, decimals, percents, square roots, exponents and scientific notation). <i>Reference: 2.1.8.A, 2.1.8.B, 2.1.11.A</i>	
M11.A.1.1.1 Find the square root of an integer to the nearest tenth using either a calculator or estimation.	Student Edition: 120 #50 <i>Check Your Understanding</i> 337, 517 <i>On Your Own</i> 344 #17, 346 #24, 347 #25, 351 #36, 353 #41, 397 #38, 503 #10, 518 #1, 519 #8, 520 #9-#10, 521 #17, 523 #27 <i>Summarize the Mathematics</i> 517 Teacher's Guide: CYU T337, T517; D T336

STANDARDS	PAGE REFERENCES
<p>M11.A.1.1.2 Express numbers and/or simplify expressions using scientific notation (including numbers less than 1).</p>	<p>Student Edition: <i>On Your Own</i> 142 #29, 346 #22-#23, 525 #32 Teacher's Guide: OYO T142, T346, T525 Large and small numbers used in the following examples can also be expressed using scientific notation. Student Edition: 28, 30 #10, 36, 489 #27 <i>On Your Own</i> 46 #29, 169 #4, 583 #25 Teacher's Guide: T28, T570; CYU T31, T218; OYO T36, T46, T140, T169</p>
<p>M11.A.1.1.3 Simplify square roots. (e.g., $\sqrt{24} = 2\sqrt{6}$)</p>	<p>Student Edition: 335-336, 358 #5 <i>Check Your Understanding</i> 337 <i>On Your Own</i> 344 #17-#18, 346 #24, 347 #25, 351 #36, 353 #41, 509 #29, 523 #27 <i>Summarize the Mathematics</i> 337, 359 Teacher's Guide: CYU T336, T337; MT T337; OYO T520; SM T337, T359</p>
<p>M11.A.1.2 Apply number theory concepts to show relationships between real numbers in problem-solving settings. Reference: 2.1.8.E</p>	
<p>M11.A.1.2.1 Find the Greatest Common Factor (GCF) and/or the Least Common Multiple (LCM) for sets of monomials.</p>	<p>Student Edition: 221 #5, #8-#9, 222 #10-#11, 475-479, 496 <i>Check Your Understanding</i> 223 <i>On Your Own</i> 225 #7, 229 #23 <i>Summarize the Mathematics</i> 498 Teacher's Guide: T476; CYU T223; SM T498</p>

STANDARDS	PAGE REFERENCES
<p>M11.A.1.3 Estimate the value of an irrational number. <i>Reference: 2.2.8.C</i></p>	
<p>M11.A.1.3.1 Locate/identify irrational numbers at the approximate location on a number line.</p>	<p>The following irrational numbers can be displayed on number lines. Student Edition: 584 <i>On Your Own</i> 175 #14, 351 #36 Teacher's Guide: IN T175; OYO T351 Students can also explore the position of irrational numbers on a number line when exploring the position of rational numbers on a number line. Student Edition: 549 #5 <i>On Your Own</i> 583 #25 Teacher's Guide: OYO T549</p>
<p>M11.A.1.3.2 Compare and/or order any real numbers (rational and irrational may be mixed).</p>	<p>Student Edition: <i>On Your Own</i> 46 #31, 263 #31, 351 #36, 583 #25 Teacher's Guide: CYU T107; OYO T351</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.A.2 Understand the meanings of operations, use operations and understand how they relate to each other.</p>	
<p>M11.A.2.1 Apply ratio and/or proportion in problem-solving situations. <i>Reference: 2.2.11.A, 2.8.11.P</i></p>	
<p>M11.A.2.1.1 Solve problems using operations with rational numbers including rates and percents (single and multi-step and multiple procedure operations) (e.g., distance, work and mixture problems, etc.).</p>	<p>Student Edition: 28 #3-#4, 29 #8, 32-34, 107, 151-155, 157-167 <i>Check Your Understanding</i> 156, 161, 167 <i>On Your Own</i> 3-39, 42-45, 168-183, 184 #19, 352 #39, 423 #30 <i>Summarize the Mathematics</i> 160 <i>Think About This Situation</i> 104, 151 Teacher's Guide: CYU T167; IN T44, T171, T172; STM T161; TS T104, T151</p>

STANDARDS	PAGE REFERENCES
<p>M11.A.2.1.2 Solve problems using direct and inverse proportions.</p>	<p>Student Edition: 555-556 #6 <i>On Your Own</i> 91 #2, 99 #21c, 130 #3, 257 #13b-d Teacher’s Guide: T556; OYO T99, T130, T257</p>
<p>M11.A.2.1.3 Identify and/or use proportional relationships in problem-solving settings.</p>	<p>Student Edition: 555-556 #6 <i>On Your Own</i> 91 #2, 99 #21c, 130 #3, 257 #13d Teacher’s Guide: T556; OYO T130</p>
<p>M11.A.2.2 Use exponents, roots and/or absolute value to solve problems. Reference: 2.1.11.A</p>	
<p>M11.A.2.2.1 Simplify/evaluate expressions involving positive and negative exponents, roots and/or absolute value (may contain all types of real numbers - exponents should not exceed power of 10).</p>	<p>Student Edition: 291-293, 294-297, 298-300, 304-305, 323-324, 326-328, 329-330, 332-334, 335-336 <i>Check Your Understanding</i> 301, 331, 337 <i>On Your Own</i> 307-319, 321 #42, 338-351, 353 #41-#42, 355-359, 487 #23, 525 #33 <i>Summarize the Mathematics</i> 293, 297, 300, 306, 325, 328, 331, 334, 337, 359 <i>Think About This Situation</i> 291, 323 Teacher’s Guide: D T293, T336; MT T297A, T306, T325, T328, T334, T337; N T294; SM T297A; TS T291, T323</p>
<p>M11.A.2.2.2 Simplify/evaluate expressions involving multiplying with exponents (e.g., $x^6 * x^7 = x^{13}$), powers of powers (e.g., $(x^6)^7 = x^{42}$) and powers of products ($(2x^2)^3 = 8x^6$ (positive exponents only)).</p>	<p>Student Edition: 296 #6, 300, 304-306, 332-334 <i>Check Your Understanding</i> 301 <i>On Your Own</i> 311 #13, 312 #14-#16, 316 #28, 319 #35-#36 <i>Summarize the Mathematics</i> 306, 334 Teacher’s Guide: T305; MT T306; OYO T316; SM T334</p>

STANDARDS		PAGE REFERENCES
ASSESSMENT ANCHOR		
M11.A.3 Compute accurately and fluently and make reasonable estimates.		
M11.A.3.1 Apply the order of operations in computation and in problem-solving situations. <i>Reference: 2.2.8.A</i>		
M11.A.3.1.1 Simplify/evaluate expressions using the order of operations to solve problems (any rational numbers may be used).	Student Edition: 32, 53, 192 #1 <i>On Your Own</i> 45 #26, 62, 67 #31 <i>Summarize the Mathematics</i> 31, 55, 193 Teacher's Guide: T85; OYO T100, T321 #43; PMD T31A-T31B; SM T31, T193	
M11.A.3.2 Use estimation strategies in problem-solving situations. <i>Reference: 2.2.11.B, 2.2.11.D</i>		
M11.A.3.2.1 Use estimation to solve problems.	Student Edition: 28, 53, 106 #3-#4, 109 #3, 125-126 #4, 130 <i>On Your Own</i> 67 #33, 101 #25, #27 Teacher's Guide: T28, T106, T120, T126, T346 #23	
M11.B Measurement		
ASSESSMENT ANCHOR		
M11.B.1 Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement. Not assessed at grade 11.		
ASSESSMENT ANCHOR		
M11.B.2 Apply appropriate techniques, tools and formulas to determine measurements.		
M11.B.2.1 Use and/or compare measurements of angles. <i>Reference: 2.3.11.A, 2.3.11.B</i>		
M11.B.2.1.1 Measure and/or compare angles in degrees (up to 360°) (protractor must be provided or drawn).	Student Edition: 372 #5, 408 #1 <i>On Your Own</i> 67 #33, 143 #31, 213 #40, 352 #38, 384, 386 #8, 392, 396 #34, 413 #3 <i>Summarize the Mathematics</i> 411 Teacher's Guide: T408 #1, T409 #4; OYO T413; SM T411	

STANDARDS	PAGE REFERENCES
<p>M11.B.2.2 Use and/or develop procedures to determine or describe measures of perimeter, circumference, area, surface area and/or volume. (May require conversions within the same system.)</p> <p>Reference: 2.3.8.A, 2.3.8.D</p>	
<p>M11.B.2.2.1 Calculate the surface area of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.</p>	<p>Student Edition: <i>On Your Own</i> 64 #20, 321 #43, 452 #23b, 453 #24c, 483 #10</p> <p>Teacher's Guide: T452, OYO T453</p>
<p>M11.B.2.2.2 Calculate the volume of prisms, cylinders, cones, pyramids and/or spheres. Formulas are provided on the reference sheet.</p>	<p>Student Edition: <i>On Your Own</i> 321 #41e, 447-448, 452 #22, 453 #26, 483 #10, 490 #35</p> <p>Teacher's Guide: OYO T447-T448, T452; T453</p>
<p>M11.B.2.2.3 Estimate area, perimeter or circumference of an irregular figure.</p>	<p>Student Edition: <i>On Your Own</i> 25 #24, 212 #37, 507 #21</p> <p>Teacher's Guide: OYO T212</p>
<p>M11.B.2.2.4 Find the measurement of a missing length given the perimeter, circumference, area or volume.</p>	<p>Student Edition: 50 #5b, 51 #7d <i>On Your Own</i> 62-63 #13-#14, 68 #36, 507 #21 <i>Summarize the Mathematics</i> 51</p> <p>Teacher's Guide: OYO T62</p>
<p>M11.B.2.3 Describe how a change in one dimension of a figure (2 or 3 dimensional) affects other measurements of that figure.</p> <p>Reference: 2.3.8.E</p>	
<p>M11.B.2.3.1 Describe how a change in the linear dimension of a figure affects its perimeter, circumference, area or volume.</p> <ul style="list-style-type: none"> • How does changing the length of the radius of a circle affect the circumference of the circle? • How does changing the length of the edge of a cube affect the volume of the cube? • How does changing the length of the base of a triangle affect the area of the triangle? 	<p>Student Edition: <i>On Your Own</i> 62-63 #13-#18, 65 #25, 452 #22</p> <p>Teacher's Guide: N T448; OYO T62-T63</p>

STANDARDS	PAGE REFERENCES
M11.C Geometry	
ASSESSMENT ANCHOR	
M11.C.1 Analyze characteristics and properties of two- and three-dimensional geometric shapes and demonstrate understanding of geometric relationships.	
M11.C.1.1 Identify and/or use parts of circles and segments associated with circles. <i>Reference: 2.9.11.F</i>	
M11.C.1.1.1 Identify and/or use the properties of a radius, diameter and/or tangent of a circle (given numbers should be whole).	Student Edition: 51 #8 <i>On Your Own</i> 46 #28, 62 #13, 175 #14, 205 #14, 305, 315 #24, 390 #16, 483 #11, 507 #20d <i>Summarize the Mathematics</i> 51 Teacher's Guide: OYO T175, T205
M11.C.1.1.2 Identify and/or use the properties of arcs, semicircles, inscribed angles and/or central angles.	Student Edition: 401 #2d-f <i>Summarize the Mathematics</i> 403 Teacher's Guide: T401; SM T403
M11.C.1.2 Recognize and/or apply properties of angles, triangles and quadrilaterals. <i>Reference: 2.9.8.D, 2.9.11.C</i>	
M11.C.1.2.1 Identify and/or use properties of triangles (e.g., medians, altitudes, angle bisectors, side/angle relationships, Triangle Inequality Theorem).	Student Edition: 364 #1, 371-373 <i>On Your Own</i> 45 #27, 95 #13, 352 #38, 385-386, 392 #21 <i>Summarize the Mathematics</i> 368, 373 Teacher's Guide: OYO T45 #27, T95; SM T368, T373
M11.C.1.2.2 Identify and/or use properties of quadrilaterals (e.g., parallel sides, diagonals, bisectors, congruent sides/angles and supplementary angles).	Student Edition: 335 #3, 336 #4, 364-365, 375-377 <i>On Your Own</i> 46 #30, 230-231 #28, 344 #18, 383 #2, 391 #18, 457 #3 <i>Summarize the Mathematics</i> 337, 368, 377 Teacher's Guide: MT T368; OYO T46; SM T368

STANDARDS	PAGE REFERENCES
<p>M11.C.1.2.3 Identify and/or use properties of isosceles and equilateral triangles.</p>	<p>Student Edition: 52, 363-364, 372, 404, 409 #5, 435 #1 <i>On Your Own</i> 68 #35, 211 #33, 283-284 #18, 344-345 #1a, 392 #21, 400 #2, 401 #3, 421 #26, 446 #10, 459 #7, 549 #22 <i>Think About This Situation</i> 425</p> <p>Teacher's Guide: OYO T392</p>
<p>M11.C.1.3 Use properties of congruence, correspondence and similarity in problem-solving settings involving two- and three-dimensional figures. Reference: 2.9.11.B</p>	
<p>M11.C.1.3.1 Identify and/or use properties of congruent and similar polygons or solids.</p>	<p>Student Edition: 407-410 <i>Summarize the Mathematics</i> 411 <i>Think About This Situation</i> 399</p> <p>Teacher's Guide: T407-T410; SM T411; TS T399</p>
<p>M11.C.1.4 Solve problems involving right triangles using the Pythagorean Theorem. Reference: 2.10.11.B</p>	
<p>M11.C.1.4.1 Find the measure of a side of a right triangle using the Pythagorean Theorem (Pythagorean Theorem included on the reference sheet).</p>	<p>Student Edition: 50 #7b, 335 #3 <i>On Your Own</i> 46 #27d, 230 #26, 263 #30, 353 #42, 391 #19, 392 #20d, 503 #10, 520 #9 <i>Summarize the Mathematics</i> 382</p> <p>Teacher's Guide: T51, T335, T451; OYO T392; SM T382</p>
<p>ASSESSMENT ANCHOR M11.C.2 Identify and/or apply concepts of transformations or symmetry. Not assessed at grade 11.</p>	
<p>ASSESSMENT ANCHOR M11.C.3 Locate points or describe relationships using the coordinate plane.</p>	
<p>M11.C.3.1 Solve problems using analytic geometry. Reference: 2.9.11.G</p>	
<p>M11.C.3.1.1 Calculate the distance and/or midpoint between 2 points on a number line or on a coordinate plane (formula provided on the reference sheet).</p>	<p>Student Edition: 372 #5 <i>Check Your Understanding</i> 570 <i>On Your Own</i> 263 #30, 283 #18, 352 #38c, 444 #6</p> <p>Teacher's Guide: OYO T263</p>

STANDARDS	PAGE REFERENCES
<p>M11.C.3.1.2 Relate slope to perpendicularity and/or parallelism (limit to linear algebraic expressions; slope formula provided on the reference sheet).</p>	<p>Student Edition: 153 #3, 155 #5, 235 #6 <i>On Your Own</i> 177 #22, 230 #30, 264 #32, 321 #44, 354 #45, 392 #20, 524 #30 Teacher's Guide: T153; OYO T392</p>
<p>M11.D Algebraic Concepts</p>	
<p>ASSESSMENT ANCHOR</p>	
<p>M11.D.1 Demonstrate an understanding of patterns, relations and functions.</p>	
<p>M11.D.1.1 Analyze and/or use patterns or relations. Reference: 2.8.11.Q, 2.8.11.A, 2.8.11.O</p>	
<p>M11.D.1.1.1 Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically.</p>	<p>Student Edition: 71, 152-154, 157-160, 161-167, 192 #4, 217-218 <i>On Your Own</i> 65 #25, 168 #1, 170, 175, 206 #17, 224 #1-#2 Teacher's Guide: T152-T154, T157-T160</p>
<p>M11.D.1.1.2 Determine if a relation is a function given a set of points or a graph.</p>	<p>Student Edition: <i>On Your Own</i> 60 #8, 169 #3, 172 <i>Summarize the Mathematics</i> 55, 72 Teacher's Guide: IN T172; SM T58B, T72</p>
<p>M11.D.1.1.3 Identify the domain, range or inverse of a relation (may be presented as ordered pairs or a table).</p>	<p>Student Edition: <i>On Your Own</i> 60 #8, 169 #3, 172 <i>Summarize the Mathematics</i> 55, 72 Teacher's Guide: IN T172; SM T58B, T72</p>

STANDARDS		PAGE REFERENCES
ASSESSMENT ANCHOR		
M11.D.2	Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs.	
M11.D.2.1	Write, solve and/or graph linear equations and inequalities using various methods. <i>Reference: 2.8.8.F, 2.8.11.D, 2.8.11.H, 2.8.11.J, 2.8.11.N, 2.8.11.L, 2.8.11.K</i>	
M11.D.2.1.1 Solve compound inequalities and/or graph their solution sets on a number line (may include absolute value inequalities).	Student Edition: 188, 194, 195, 203 #7-#8 <i>Check Your Understanding</i> 197 <i>On Your Own</i> 264 #35, 549 #25 <i>Summarize the Mathematics</i> 190, 196 Teacher's Guide: T188, T195, T196, T469; PMD T197A-T197B; SM T197	
M11.D.2.1.2 Identify or graph functions, linear equations or linear inequalities on a coordinate plane.	Student Edition: 189-191, 198-199, 234 #4 <i>Check Your Understanding</i> 167 <i>On Your Own</i> 201 #1, 208 #22-#23 <i>Summarize the Mathematics</i> 200, 236 <i>Think About This Situation</i> 187 Teacher's Guide: T189; PMD T187A-T187B, T190C-T190D; TS T187	
M11.D.2.1.3 Write, solve and/or apply a linear equation (including problem situations).	Student Edition: 152-155, 157-160, 188-194, 198 <i>Summarize the Mathematics</i> 156, 160 Teacher's Guide: T234; IN T189; SM T160, T190B	
M11.D.2.1.4 Write and/or solve systems of equations using graphing, substitution and/or elimination (limit systems to 2 equations).	Student Edition: 199, 236 #7 <i>On Your Own</i> 204 #12, 205 #13, 208 #24, 211 #32 <i>Summarize the Mathematics</i> 200 Teacher's Guide: T199; OYO T204 #12	
M11.D.2.1.5 Solve quadratic equations using factoring (integers only – not including completing the square or the Quadratic Formula).	Student Edition: 468-469, 471, 481, 495-498, 510-515, 517-519 <i>Summarize the Mathematics</i> 498, 529 Teacher's Guide: T474; SM T498, T517, T529; TS T511	

STANDARDS	PAGE REFERENCES
<p>M11.D.2.2 Simplify expressions involving polynomials. Reference: 2.8.11.S</p>	
<p>M11.D.2.2.1 Add, subtract and/or multiply polynomial expressions (express answers in simplest form – nothing larger than a binomial multiplied by a trinomial).</p>	<p>Student Edition: 218-219, 221 #6-#7, #9, 222 #11, 223 <i>On Your Own</i> 225 #6, 228 #18 <i>Summarize the Mathematics</i> 218 Teacher’s Guide: CYU T223; I T219</p>
<p>M11.D.2.2.2 Factor algebraic expressions, including difference of squares and trinomials (trinomials limited to the form ax^2+bx+c where a is not equal to 0).</p>	<p>Student Edition: 218-219, 221-222, 475-476, 496 <i>Check Your Understanding</i> 498 <i>On Your Own</i> 225 #6, 228 #18, 501 #4-#7 <i>Summarize the Mathematics</i> 218 Teacher’s Guide: T475-T476; CYU T223; I T219</p>
<p>M11.D.2.2.3 Simplify algebraic fractions.</p>	<p>Student Edition: 143 #35, 323, 332-337 <i>On Your Own</i> 343-344 #12-#16 <i>Summarize the Mathematics</i> 334, 359 Teacher’s Guide: T323, T332-T337; SM T334</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.D.3 Analyze change in various contexts.</p>	
<p>M11.D.3.1 Describe and/or determine change. Reference: 2.8.8.J, 2.11.8.B</p>	
<p>M11.D.3.1.1 Identify, describe and/or use constant or varying rates of change.</p>	<p>Student Edition: 28-29, 151-155, 159, 166-167 #8 <i>Check Your Understanding</i> 156, 194 <i>On Your Own</i> 24 #20-#23, 170, 184 #40 Teacher’s Guide: T28-T29, T159; CU T194</p>
<p>M11.D.3.1.2 Determine how a change in one variable relates to a change in a second variable (e.g., $y=4/x$, if x doubles, what happens to y?).</p>	<p>Student Edition: 34 #4, 49 #1-#4, 152-154, 159 <i>On Your Own</i> 24 #20-#23, 170, 184 #40 <i>Summarize the Mathematics</i> 156 <i>Think About This Situation</i> 151 Teacher’s Guide: T159; SM T156; TS T151</p>

STANDARDS	PAGE REFERENCES
<p>M11.D.3.2 Compute and/or use the slope of a line. Reference: 2.8.11.J, 2.8.11.L</p>	
<p>M11.D.3.2.1 Apply the formula for the slope of a line to solve problems (formula given on reference sheet).</p>	<p>Student Edition: 155, 233 #c, 234 #3a, 235 #6b, 264 #32 <i>On Your Own</i> 169, 180 #30, 321 #44 <i>Summarize the Mathematics</i> 160 Teacher’s Guide: PCE T155</p>
<p>M11.D.3.2.2 Given the graph of the line, 2 points on the line, or the slope and a point on a line, write or identify the linear equation in point-slope, standard and/or slope-intercept form.</p>	<p>Student Edition: 155, 160 #5-#6, 166-167 #8, 233 #c, 234 #3a, 235 #6b, 264 #32 <i>On Your Own</i> 169, 180 #30, 321 #44, 354 #45 <i>Summarize the Mathematics</i> 160 Teacher’s Guide: T160</p>
<p>M11.D.3.2.3 Compute the slope and/or y-intercept represented by a linear equation or graph.</p>	<p>Student Edition: 155, 160 #6, 233 #c, 234 #3a, 235 #6b, 264 #32 <i>On Your Own</i> 169, 180 #30, 321 #44 <i>Summarize the Mathematics</i> 160 Teacher’s Guide: T160; PCE T155</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.D.4 Describe or use models to represent quantitative relationships.</p>	
<p>M11.D.4.1 Interpret and/or use linear, quadratic and/or exponential functions and their equations, graphs or tables. Reference: 2.8.11.K, 2.8.11.Q</p>	
<p>M11.D.4.1.1 Match the graph of a given function to its table or equation.</p>	<p>Student Edition: 153, 155, 157f, 166, 170 <i>Check Your Understanding</i> 325-326 <i>On Your Own</i> 168 #2, 321 #44 <i>Summarize the Mathematics</i> 156 <i>Think About This Situation</i> 151 Teacher’s Guide: CU T326; TS T151</p>

STANDARDS	PAGE REFERENCES
M11.E Data Analysis and Probability	
ASSESSMENT ANCHOR	
M11.E.1 Formulate or answer questions that can be addressed with data and/or organize, display, interpret or analyze data.	
M11.E.1.1 Appropriately display and/or use data in problem-solving settings. <i>Reference: 2.6.11.A, 2.6.8.E</i>	
M11.E.1.1.1 Create and/or use appropriate graphical representations of data, including box-and-whisker plots, stem-and-leaf plots or scatter plots.	Student Edition: 5 #1, 6 #3, 9 #2-#3, 110 #4a, #5a <i>Check Your Understanding</i> 7, 13ii, 121a <i>On Your Own</i> 95 #12, 97 #19, 173 #12, 178-179 #27 Teacher's Guide T110, T162
M11.E.1.1.2 Analyze data and/or answer questions based on displayed data (box-and-whisker plots, stem-and-leaf plots or scatter plots).	Student Edition: 5 #2, 6, 9-10 #4-#5, 109-112, 146 #2, 162-166 <i>Check Your Understanding</i> 13 iv <i>On Your Own</i> 18-19 #9, 95 #12, 97 #19, 98, 135 #12, 137 #16 Teacher's Guide: CYU T13
ASSESSMENT ANCHOR	
M11.E.2 Select and/or use appropriate statistical methods to analyze data.	
M11.E.2.1 Use measures of central tendency to describe a set of data. <i>Reference: 2.6.8.A, 2.6.11.A</i>	
M11.E.2.1.1 Calculate or select the appropriate measure of central tendency (mean, mode or median) of a set of data given or represented on a table, line plot or stem-and-leaf plot.	Student Edition: 77-78 #3, 117-122, 553-558 <i>On Your Own</i> 132-134, 140-141 #26-#27, 184-185 #41, 397 #39, 454-455 #31, 490 #31, 508 #27 <i>Summarize the Mathematics</i> 147 <i>Think About This Situation</i> 552 c Teacher's Guide: T117-T122; OYO T140B

STANDARDS	PAGE REFERENCES
<p>M11.E.2.1.2 Calculate and/or interpret the range, quartiles and interquartile range of data.</p>	<p>Student Edition: 108-109 #2, 115, 127 #6 <i>On Your Own</i> 130 #4c, 133 #8a, 135 #12b, 136-137 <i>Summarize the Mathematics</i> 111, 122 Teacher’s Guide: T108; SM T111A, T122</p>
<p>M11.E.2.1.3 Describe how outliers affect measures of central tendency.</p>	<p>Student Edition: 77 #2a, 85-86 #6, 109 #2, 113-115 <i>Check Your Understanding</i> 116 <i>On Your Own</i> 19 #11, 138 #20 <i>Summarize the Mathematics</i> 116, 147 Teacher’s Guide: T77, T113-T115; SM T116</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.E.3 Understand and/or apply basic concepts of probability or outcomes.</p>	
<p>M11.E.3.1 Apply probability and/or odds to practical situations. <i>Reference: 2.7.11.A, 2.7.11.E</i></p>	
<p>M11.E.3.1.1 Find probabilities for independent, dependent or compound events and represent as a fraction, decimal or percent).</p>	<p>Student Edition: 534-535, 536-540, 552-556, 558-563, 586-590 <i>Check Your Understanding</i> 570 <i>On Your Own</i> 24 #21, 143 #36, 542-544, 578 #17, 581 #21 <i>Summarize the Mathematics</i> 10 <i>Think About This Situation</i> 552 Teacher’s Guide: T552-T556; CYU T570; OYO T24; TS T552A</p>
<p>M11.E.3.1.2 Find, convert and/or compare the probability and/or odds of a simple event.</p>	<p>Student Edition: 534-540, 546, 548, 590 <i>Check Your Understanding</i> 541, 570 <i>On Your Own</i> 24 #21, 546 <i>Think About This Situation</i> 533, 552 Teacher’s Guide: T552B; CYU T570</p>

STANDARDS	PAGE REFERENCES
<p>M11.E.3.2 Apply counting techniques in problem-solving settings. <i>Reference: 2.7.8.A</i></p>	
<p>M11.E.3.2.1 Determine the number of permutations and/or combinations or apply the fundamental counting principle (formula provided on the reference sheet).</p>	<p>Student Edition: 533 #1c <i>On Your Own</i> 581-582 #22-#23 Teacher’s Guide: OYO T581-T582</p>
<p>ASSESSMENT ANCHOR</p>	
<p>M11.E.4 Develop and/or evaluate inferences and predictions or draw conclusions based on data or data displays.</p>	
<p>M11.E.4.1 Make predictions using data displays and probability. <i>Reference: 2.7.8.E, 2.6.11.D</i></p>	
<p>M11.E.4.1.1 Estimate or calculate to make predictions based on a circle, line, bar graph or given situation.</p>	<p>Student Edition: 554, 555 #6, 556 #8, 561 #4, 562 #6 <i>Check Your Understanding</i> 558, 564 <i>On Your Own</i> 231 #29, 571-575 Teacher’s Guide: CYU T558, T564</p>
<p>M11.E.4.1.2 Use probability to predict outcomes.</p>	<p>Student Edition: 534-535, 536-540, 552-556, 558-563, 568-570, 586-590 <i>Check Your Understanding</i> 570 <i>On Your Own</i> 24 #21, 143 #36, 542-544, 578 #17, 581 #21 <i>Summarize the Mathematics</i> 10 <i>Think About This Situation</i> 552 Teacher’s Guide: T552-T556, T568-T570; CYU T570; OYO T24; TS T552A</p>
<p>M11.E.4.2 Analyze and/or interpret data on a scatter plot and/or use a scatter plot to make predictions. <i>Reference: 2.6.11.C, 2.6.11.D</i></p>	
<p>M11.E.4.2.1 Draw, find and/or write an equation for a line of best fit for a scatter plot.</p>	<p>Student Edition: 161-167, 233 <i>On Your Own</i> 167, 173-174, 176 #19, 180 #32 <i>Summarize the Mathematics</i> 236a Teacher’s Guide: T161-T167, T233; OYO T173-T174; SM T161, T167</p>

STANDARDS	PAGE REFERENCES
<p>M11.E.4.2.2 Make predictions using the equations or graphs of best-fit lines of scatter plots.</p>	<p>Student Edition: 5 #1, 162-165 <i>Check Your Understanding</i> 7-8 <i>On Your Own</i> 18-19 #9, 174, 180 #32, 181 #33</p> <p>Teacher's Guide: T162-T165</p>