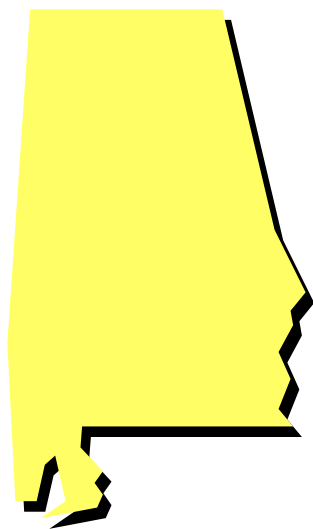
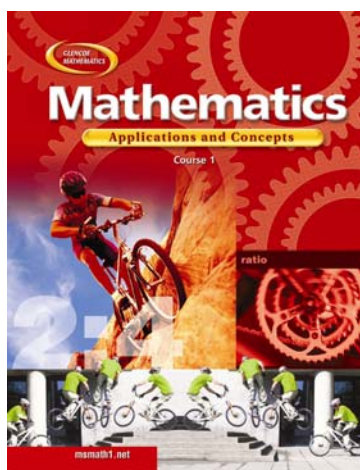


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**Alabama Course of Study:
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COURSE OF STUDY: MATHEMATICS 6**

OBJECTIVES	PAGE REFERENCES
Number and Operations	
Students will:	
1. Demonstrate computational fluency with addition, subtraction, multiplication, and division of decimals and fractions.	
<ul style="list-style-type: none"> • Comparing rational numbers written as fractions, decimals, mixed numbers, and percents 	SE: 108–109, 186, 187, 198, 199, 202, 203, 208, 295, 296, 406 TWE: 108–109, 186, 187, 198, 199, 202, 203, 208, 295, 296, 406
<ul style="list-style-type: none"> • Converting fractions and mixed numbers to decimals and percents 	SE: 202–203, 206, 207, 208, 212, 401 TWE: 202–203, 206, 207, 208, 212, 401
<ul style="list-style-type: none"> • Converting terminating decimals and percents to fractions and mixed numbers 	SE: 202, 203, 206–207, 401, 404, 405 TWE: 202, 203, 206–207, 401, 404, 405
<ul style="list-style-type: none"> • Writing decimal numbers in expanded notation 	SE: 102, 103, 104, 105, 114, 127, 129 TWE: 102, 103, 104, 105, 114, 127, 129
<ul style="list-style-type: none"> • Using prime factorizations 	SE: 14, 15, 16, 17, 19, 20, 22, 23, 178-180, 195-197 TWE: 14, 15, 16, 17, 19, 20, 22, 23, 178-180, 195-197
<ul style="list-style-type: none"> • Identifying prime and composite numbers 	SE: 14-17, 22, 43 TWE: 14-17, 22, 43
<ul style="list-style-type: none"> • Using greatest common factor (GCF) to simplify fractions 	SE: 183-185 TWE: 183-185

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OBJECTIVES	PAGE REFERENCES
<ul style="list-style-type: none"> Formulating algorithms using basic operations on fractions and decimals 	SE: 121–122, 141, 142, 144, 145, 152, 153, 228, 229, 235–236, 240–241, 261–262, 265–266, 272–273, 276–277 TWE: 121–122, 141, 142, 144, 145, 152, 153, 228, 229, 235–236, 240–241, 261–262, 265–266, 272–273, 276–277
<ul style="list-style-type: none"> Applying the distributive property to compute with fractions and decimals 	SE: 333–336 TWE: 333–336
<ul style="list-style-type: none"> Using least common multiple (LCM) to add and subtract fractions with unlike denominators 	SE: 234, 235–238, 241–243, 245–247, 250, 251 TWE: 234, 235–238, 241–243, 245–247, 250, 251
2. Solve problems involving decimals, percents, fractions, and proportions.	
<ul style="list-style-type: none"> Estimating with fractions and decimals 	SE: 116, 117, 118, 119, 223–224, 225 TWE: 116, 117, 118, 119, 223–224, 225
Algebra	
3. Solve problems using numeric and geometric patterns.	
<ul style="list-style-type: none"> Determining a verbal rule for a function given the input and output 	SE: 360–361, 362–363, 364, 365, 367 TWE: 360–361, 362–363, 364, 365, 367
Geometry	
4. Identify two-dimensional and three-dimensional figures based on attributes, properties, and component parts.	
<ul style="list-style-type: none"> Classifying quadrilaterals based on their attributes 	SE: 523, 524, 525, 527 TWE: 523, 524, 525, 527

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OBJECTIVES	PAGE REFERENCES
<ul style="list-style-type: none"> • Identifying line and rotational symmetries of polygons 	SE: 528–531, 540, 541 TWE: 528–531, 540, 541
<ul style="list-style-type: none"> • Classifying triangles as right, obtuse, or acute 	SE: 526–527 TWE: 526–527
5. Plot coordinates on grids, graphs, and maps.	
<ul style="list-style-type: none"> • Identifying the coordinates of a point on the Cartesian plane 	SE: 320–324, 326, 327 TWE: 320–324, 326, 327
<ul style="list-style-type: none"> • Comparing parallel and perpendicular lines 	SE: 515, 523, 549 TWE: 515, 523, 549
Measurement	
6. Classify angles as acute, obtuse, right, or straight.	
<ul style="list-style-type: none"> • Estimating angle measures using 45 degrees, 90 degrees, 180 degrees, 270 degrees, or 360 degrees as referents 	SE: 510–512, 513–514, 539 TWE: 510–512, 513–514, 539
<ul style="list-style-type: none"> • Measuring angles 	SE: 506-509, 510–511, 512, 518, 538 TWE: 506-509, 510–511, 512, 518, 538
7. Solve problems involving perimeter and area of parallelograms and rectangles.	
<ul style="list-style-type: none"> • Estimating perimeter and area 	SE: 224, 225, 232, 257, 258, 547, 548, 557 TWE: 224, 225, 232, 257, 258, 547, 548, 557
<ul style="list-style-type: none"> • Developing formulas to determine perimeter and area of parallelograms and rectangles 	SE: 39–40, 41, 158–159, 464, 546–547 TWE: 39–40, 41, 158–159, 464, 546–547

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OBJECTIVES	PAGE REFERENCES
8. Determine the distance between two points on a scale drawing or a map using proportional reasoning.	
<ul style="list-style-type: none"> • Using different forms of notation to symbolize ratios and rates 	SE: 380-383 TWE: 380-383
9. Convert units of length, weight, or capacity within the same system (customary or metric).	SE: 465–466, 470–471, 474–474, 476–477, 490–491 TWE: 465–466, 470–471, 474–474, 476–477, 490–491
Data Analysis and Probability	
10. Interpret information from bar graphs, line graphs, and circle graphs.	This objective is addressed throughout. See for example: SE: 56, 57, 62, 63, 122, 182, 258, 297, 395, 410, 560, 561 TWE: 56, 57, 62, 63, 122, 182, 258, 297, 395, 410, 560, 561
11. Find the probability of a simple event.	
<ul style="list-style-type: none"> • Expressing probabilities as ratios, percents, and decimals 	SE: 428–429, 430, 431, 434, 438–439 TWE: 428–429, 430, 431, 434, 438–439

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