

Houghton Mifflin *MathSteps* Level 5  
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<p>6.A.2 Compare and order whole numbers, fractions and decimals using concrete materials, drawings and mathematical symbols.</p>	<p>TE: T16–T19, T162–T165, 7–8, 21, 85–88, 92, 102, 111, 145–148, 150, 167, 180, 182, 248, 250, 281–286, 288, 290, 305–306          SB: 7–8, 21, 85–88, 92, 102, 111, 145–148, 150, 167, 180, 182, 248, 250, 281–286, 288, 290, 305–306</p>
<p>6.B.2 Solve one- and two-step problems involving whole numbers, fractions and decimals using addition, subtraction, multiplication and division.</p>	<p>There are many opportunities for students to solve one- and two-step problems. These are a few of the many examples.          TE: T16–T19, T44–T47, T90–T93, T76–T79, T60–65, 6, 11–13, 18–20, 50, 52, 78, 88, 94, 100, 108, 124, 138, 152, 166, 171–172, 288, 290, 296, 298          SB: 6, 11–13, 18–20, 50, 52, 78, 88, 94, 100, 108, 124, 138, 152, 166, 171–172, 288, 290, 296, 298</p>
<p>6.C.2a Select and perform computational procedures to solve problems with whole numbers, fractions and decimals.</p>	<p>There are many opportunities for students to select and perform computational procedures. These are a few of the many examples.          TE: T60–T63, 70, T76–T79, T90–T93, 6, 11–12, 40, 49–50, 55–56, 60, 78, 88, 94, 100, 108, 112, 124, 148, 152, 158, 162, 160 166, 172, 303–304          SB: 6, 11–12, 40, 49–50, 55–56, 60, 70, 78, 88, 94, 100, 108, 112, 124, 148, 152, 158, 162, 160 166, 172, 303–304</p>
<p>6.C.2b Show evidence that computational results using whole numbers, fractions and decimals are correct and/or that estimates are reasonable.</p>	<p>TE: T16–T19, T22, T30–T33, T38, T44–T47, T55, T60–T63, T68–T69, T90–T93, T95, 13–14, 43–44, 44–44, 104, 106, 149–150          SB: 13–14, T38, 43–44, 44–44, 104, 106, 149–150</p>
<p>6.D.2 Describe the relationship between two sets of data using ratios and appropriate notations (e.g., <math>a/b</math>, <math>a</math> to <math>b</math>, <math>a:b</math>).</p>	<p>TE: T134–T137, T138–T139, 233–240, 255–256, 273–277, 306          SB: 233–240, 255–256, 273–277, 306</p>
<p>7.A.2a Calculate, compare and convert length, perimeter, area, weight/mass and volume within the customary and metric systems.</p>	<p>TE: T106–T113, T18–T21, T125–T126, 177–193, 213–215, 227–228          SB: 177–193, 213–215, 227–228</p>
<p>7.A.2b Solve addition, subtraction, multiplication and division problems using currency.</p>	<p>TE: T30–T33, T35, T44–T47, T49, T90–T93, T96, 6, 18, 20, 24, 30, 32, 34, 38, 40, 43–44, 46, 52, 55–56, 58, 61–62, 64, 66, 72, 76, 80, 82, 140, 153–154, 156, 158, 162, 164, 166–168, 171–172, 178, 186, 236, 242, 252,</p>

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	254, 264, 268, 272, 274, 282, 294 SB: 6, 18, 20, 24, 30, 32, T30–T33, 34, T35, 38, 40, 43–44, T44–T47, 46, T49, 52, 55–56, 58, 61–62, 64, 66, 72, 76, 80, 82, T90–T93, T96, 140, 153–154, 156, 158, 162, 164, 166–168, 171–172, 178, 186, 236, 242, 252, 254, 264, 268, 272, 274, 282, 294
7.B.2a Determine and communicate possible methods for estimating a given measure, selecting proper units in both customary and metric systems.	TE: 177–179, 181, 185, 186, 188, 201, 217 SB: 177–179, 181, 185, 186, 188, 201, 217
7.B.2b Estimate conversions between measures within the customary and metric systems.	TE: 177–178, 180, 181–182, 185–186, 189–190 SB: 177–178, 180, 181–182, 185–186, 189–190
7.C.2a Describe relationships in a simple scale drawing.	TE: T134–T137, T139, 95–96, 239–240 SB: 95–96, 239–240
7.C.2b Construct or draw figures with given perimeters and areas.	TE: T118–T121, T125–T126, 215, 222, 224, 225–226 SB: 215, 222, 224, 225–226
8.A.2a Identify, describe, extend and create geometric and numeric patterns.	TE: 4, 34, 36–38, 45, 102, 109–110, 209–210 SB: 4, 34, 36–38, 45, 102, 109–110, 209–210
8.A.2b Construct and solve number sentences using a variable to represent an unknown quantity.	TE: T16–T19, T23, 15–18, 19–24, 27–30, 32, 40, 49–52, 54, 72, 76, 102, 114, 120, 126, 152, 170, 194, 290, 296–297, 299–302, 306 SB: 15–18, 19–24, 27–30, 32, 40, 49–52, 54, 72, 76, 102, 114, 120, 126, 152, 170, 194, 290, 296–297, 299–302, 306
8.B.2 Analyze a geometric pattern and express the results numerically.	TE: 200–202, 206, 208, 211–212, 214–217, 221–226 SB: 200–202, 206, 208, 211–212, 214–217, 221–226
8.C.2 Explain operations and number properties including commutative, associative, distributive, transitive, zero, equality and order of operations.	TE: T16–T19, T23, T30–T33, T34–T35, T44–T47, T48, T76–T79, T82, T85, 18, 29–34, 51–52, 81–82, 125–126, 137–138, 173–174, 176–179, 296 SB: 18, 29–34, 51–52, 81–82, T85, 125–126, 137–138, 173–174, 176–179, 296
8.D.2 Solve linear equations involving whole numbers.	TE: 287, 299–302 SB: 287, 299–302

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<p>9.A.2a Build physical models of two- and three-dimensional shapes.</p>	<p>TE: 204, 212, 220          SB: 204, 212, 220</p>
<p>9.A.2b Identify and describe how geometric figures are used in practical settings (e.g., construction, art, advertising).</p>	<p>TE: 215, 222, 224–226          SB: 215, 222, 224–226</p>
<p>9.A.2c Describe and draw representations of geometric relationships, patterns, symmetries, and designs in two- and three-dimensions with and without technology.</p>	<p>TE: T18–T21, T123, T125, 197–226          SB: 197–226</p>
<p>9.B.2 Compare geometric figures and determine their properties including parallel, perpendicular, similar, congruent and line symmetry.</p>	<p>TE: T18–T21, T123, T125, 197–208, 211–213, 216–220          SB: 197–208, 211–213, 216–220</p>
<p>9.C.2 Formulate logical arguments about geometric figures and patterns and communicate reasoning.</p>	<p>TE: 215, 222, 224, 226          SB: 215, 222, 224, 226</p>
<p>10.A.2a Organize and display data using pictures, tallies, tables, charts, bar graphs, line graphs, line plots and stem-and-leaf graphs.</p>	<p>TE: T16–T19, T76–T79, T134–T137, T148–T151, T162–T165, T170, 11–12, 23, 59, 79–80, 95–96, 111–112, 127–128, 142, 183–184, 190–192, 238, 241–242, 253–254, 256, 259–266, 269, 270–272, 274–277, 299–302          SB: 11–12, 23, 59, 79–80, 95–96, 111–112, 127–128, 142, 183–184, 190–192, 238, 241–242, 253–254, 256, 259–266, 269, 270–272, 274–277, 299–302</p>
<p>10.A.2b Using a data set, determine mean, median, mode and range, with and without the use of technology.</p>	<p>TE: T44–T47, T50, T148–T151, T153, 59–60, 81–82, 263–264, 277–278          SB: 59–60, 81–82, 263–264, 277–278</p>
<p>10.A.2c Make predictions and decisions based on data and communicate their reasoning.</p>	<p>TE: T148–T152, 190–192, 238, 253–254, 261–262, 271–272, 275–276          SB: 190–192, 238, 253–254, 261–262, 271–272, 275–276</p>
<p>10.B.2a Formulate questions of interest and select methods to systematically collect data.</p>	<p>TE: 276          SB: 276</p>
<p>10.B.2b Collect, organize and display data using</p>	<p>TE: T16–T19, T76–T79, T134–T137,</p>

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tables, charts, bar graphs, line graphs, circle graphs, line plots and stem-and-leaf graphs.	T148–T151, T162–T165, T170, 11–12, 23, 59, 79–80, 95–96, 111–112, 127–128, 142, 183–184, 190–192, 238, 241–242, 253–254, 256, 259–266, 269, 270–272, 274–277, 299–302 SB: 11–12, 23, 59, 79–80, 95–96, 111–112, 127–128, 142, 183–184, 190–192, 238, 241–242, 253–254, 256, 259–266, 269, 270–272, 274–277, 299–302
10.B.2c Analyze the data using mean, median, mode and range, as appropriate, with or without the use of technology.	TE: T44–T47, T50, T148–T151, T153, 59–60, 81–82, 263–264, 277–278 SB: 59–60, 81–82, 263–264, 277–278
10.B.2d Interpret results or make relevant decisions based on the data gathered.	TE: T148–T152, 190–192, 238, 253–254, 261–262, 271–272, 275–276 SB: 190–192, 238, 253–254, 261–262, 271–272, 275–276
10.C.2a Calculate the probability of a simple event.	TE: T148–T151, T156, 269–276 SB: 269–276
10.C.2b Compare the likelihood of events in terms of certain, more likely, less likely or impossible.	TE: T148–T151, T156, 269–270 SB: 269–270
10.C.2c Determine the probability of an event involving "and", "or" or "not".	TE: 273–275 SB: 273–275

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6.A.3 Represent fractions, decimals, percentages, exponents and scientific notation in equivalent forms.	TE: T16–T19, T30–T33, T44–T47, T51, T53, T90–T93, 3–4, 39–40, 71–72, 81–82, 83–84, 87–88, 169–170 SB: 3–4, 39–40, 71–72, 81–82, 83–84, 87–88, 169–170
6.B.3a Solve practical computation problems involving whole numbers, integers and rational numbers.	There are many opportunities for students to solve computation problems. These are a few of the many examples. TE: T16–T19, T20–T23, T148–T151, T153, T162–T165, T168, 6, 11, 13, 15, 20–21, 24–25, 29, 32–35, 268, 270, 273, 276, 277–278, 280, 282, 284, 286–291, 296, 299, 303, 306, 308, 310 SB: 6, 11, 13, 15, 20–21, 24–25, 29, 32–35, 268, 270, 273, 276, 277–278, 280, 282, 284, 286–291, 296, 299, 303, 306, 308, 310
6.B.3b Apply primes, factors, divisors, multiples, common factors and common multiples in solving problems.	TE: T16–T19, T23, T44–T47, T48, T50, 30–32, 69–70, 73–74, 75–76, 77–78 SB: 30–32, 69–70, 73–74, 75–76, 77–78
6.B.3c Identify and apply properties of real numbers including pi, squares, and square roots.	TE: T16–T19, T21–T22, T44–T47, T49, 7–8, 16–17, 71–72, 220–221, 231, 307–309 SB: 7–8, 16–17, 71–72, 220–221, 231, 307–309
6.C.3a Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions.	There are many opportunities for students to select computational procedures and solve problems. These are a few of the many examples. TE: T60–T63, T65, T106–T109, T115, T120–T123, T128, T134–T137, 26–27, 91–92, 105–106, 145–146, 165–166, 179–180, 207–208, 215–216, 220, 222, 226, 245–246, 251–252, 303–304, 310 SB: 26–27, 91–92, 105–106, 145–146, 165–166, 179–180, 207–208, 215–216, 220, 222, 226, 245–246, 251–252, 303–304, 310
6.C.3b Show evidence that computational results using whole numbers, fractions, decimals, percents and proportions are correct and/or that estimates are reasonable.	TE: 5, 9–12, 15, 30–32, 33–34, 113, 181, 245–246 SB: 5, 9–12, 15, 30–32, 33–34, 113, 181, 245–246
6.D.3 Apply ratios and proportions to solve practical problems.	TE: T90–T95, T106–T109, 153–161, 175, 253–254, 159–161, 155–156, 162–164, 203

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<p>7.A.3a Measure length, capacity, weight/mass and angles using sophisticated instruments (e.g., compass, protractor, trundle wheel).</p>	<p>SB: 153–161, 175, 253–254, 159–161, 155–156, 162–164, 203</p> <p>TE: T76–T79, T80–T84, T106–T109, T120–T124, T127, 189–190, 193–196, 198</p> <p>SB: 189–190, 193–196, 198</p>
<p>7.A.3b Apply the concepts and attributes of length, capacity, weight/mass, perimeter, area, volume, time, temperature and angle measures in practical situations.</p>	<p>TE: T76–T79, T80–T84, T106–T109, T120–T124, T127, 131–136, 138–148, 153–158, 161–164, 166, 216, 219–220, 226, 228, 233–234</p> <p>SB: 131–136, 138–148, 153–158, 161–164, 166, 216, 219–220, 226, 228, 233–234</p>
<p>7.B.3 Select and apply instruments including rulers and protractors and units of measure to the degree of accuracy required.</p>	<p>TE: T76–T79, T80–T84, T106–T109, T120–T124, T127, 131–148, 189–196, 200–204, 206–208</p> <p>SB: 131–148, 189–196, 200–204, 206–208</p>
<p>7.C.3a Construct a simple scale drawing for a given situation.</p>	<p>TE: T90–T93, T96, 162–164, 208</p> <p>SB: 162–164, 208</p>
<p>7.C.3b Use concrete and graphic models and appropriate formulas to find perimeters, areas, surface areas and volumes of two- and three- dimensional regions.</p>	<p>TE: T120–T123, T126–T127, 215–218, 221–222, 225–226, 229–234</p> <p>SB: 215–218, 221–222, 225–226, 229–234</p>
<p>8.A.3a Apply the basic properties of commutative, associative, distributive, transitive, inverse, identity, zero, equality and order of operations to solve problems.</p>	<p>TE: T16–T19, T21–T23, T44–T47, T49, 148–151, 7–8, 16–17, 22–23, 71–72, 283–284, 307–309</p> <p>SB: 7–8, 16–17, 71–72, 307–309</p>
<p>8.A.3b Solve problems using linear expressions, equations and inequalities.</p>	<p>TE: T16–T19, T21, T30–T33, T39, T148–T149, T156, T162–T165, T166–T167, T170, 9–11, 26, 30–32, 33–34, 41–42, 61–62, 72, 85–86, 87–88, 125–126, 269–270, 287–288, 297–299, 300–302, 305, 309–312</p> <p>SB: 9–11, 26, 30–32, 33–34, 41–42, 61–62, 72, 85–86, 87–88, 125–126, 269–270, 287–288, 297–299, 300–302, 305, 309–312</p>
<p>8.B.3 Use graphing technology and algebraic methods to analyze and predict linear relationships and make generalizations from linear patterns.</p>	<p>TE: T162–T166, 295–304</p> <p>SB: 295–304</p>
<p>8.C.3 Apply the properties of numbers and operations including inverses in algebraic</p>	<p>TE: 24–26, 106, 173–174, 179–180, 278, 303–304</p>

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settings derived from economics, business and the sciences.	SB: 24–26, 106, 173–174, 179–180, 278, 303–304
8.D.3a Solve problems using numeric, graphic or symbolic representations of variables, expressions, equations and inequalities.	TE: T16–T19, T30–T33, T148–T151, T162–T165, 8–11, 22–23, 26, 30–35, 41, 46, 61–63, 72, 85–86, 88, 125–127, 157–160, 162–164, 177–178, 233–234, 247, 269, 270, 284–288, 295–302, 305–306, 309–312 SB: 8–11, 22–23, 26, 30–35, 41, 46, 61–63, 72, 85–86, 88, 125–127, 157–160, 162–164, 177–178, 233–234, 247, 269, 270, 284–288, 295–302, 305–306, 309–312
8.D.3b Propose and solve problems using proportions, formulas and linear functions.	TE: T120–T123, T127, T162–T165, T166–T167, T90–T93, T95, 8, 17, 22, 159–161, 217–218, 219–220, 221–222, 225–226, 2233–234, 229–230, 297–299, 300–302 SB: 8, 17, 22, 159–161, 217–218, 219–220, 221–222, 225–226, 2233–234, 229–230, 297–299, 300–302
8.D.3c Apply properties of powers, perfect squares and square roots.	TE: T44–T47, T49, 71–72, 221–222, 224–226, 229–232, 284, 309–310 SB: 71–72, 221–222, 224–226, 229–232, 284, 309–310
9.A.3a Draw or construct two- and three-dimensional geometric figures including prisms, pyramids, cylinders and cones.	TE: T106–T109, T120–T123, 188–190, 193–199, 205, 220, 222 SB: 188–190, 193–199, 205, 220, 222
9.A.3b Draw transformation images of figures, with and without the use of technology.	<i>See Grade 7.</i>
9.A.3c Use concepts of symmetry, congruency, similarity, scale, perspective, and angles to describe and analyze two- and three-dimensional shapes found in practical applications.	TE: T90–T93, T96, T106–T109, T111–T113, 162–164, 189–192, 193–194, 195–200, 203–204 SB: 162–164, 189–192, 193–194, 195–200, 203–204
9.B.3 Identify, describe, classify and compare two- and three- dimensional geometric figures and models according to their properties.	TE: T90–T93, T96, T106–T109, T111–T113, T120–T123, 187–208, 223–224, 227–228, 233–234 SB: 187–208, 223–224, 227–228, 233–234
9.C.3a Construct, develop and communicate logical arguments (informal proofs) about geometric figures and patterns.	<i>This benchmark is not covered.</i>

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<p>9.C.3b Develop and solve problems using geometric relationships and models, with and without the use of technology.</p>	<p>TE: T90–T93, T96, T106–T109, T111–T113, T120–T123, 187–208, 215–234 SB: 187–208, 215–234</p>
<p>9.D.3 Compute distances, lengths and measures of angles using proportions, the Pythagorean theorem and its converse.</p>	<p>TE: 191–192 SB: 191–192</p>
<p>10.A.3a Construct, read and interpret tables, graphs (including circle graphs) and charts to organize and represent data.</p>	<p>TE: T44–T47, T54, T60–T63, T65, T90–T93, T100, T106–T106, T113, T121–T123, T128, T167, 26–27, 32, 91–92, 105–106, 123–124, 136, 145–146, 179–180, 201–202, 207–208, 241–242, 247–248, 251–252, 253–254, 256–257, 259–260, 295–296, 300–304 SB: 26–27, 32, 91–92, 105–106, 123–124, 136, 145–146, 179–180, 201–202, 207–208, 241–242, 247–248, 251–252, 253–254, 256–257, 259–260, 295–296, 300–304</p>
<p>10.A.3b Compare the mean, median, mode and range, with and without the use of technology.</p>	<p>TE: T16–T19, T24, 26–29, 243–244 SB: 26–29, 243–244</p>
<p>10.A.3c Test the reasonableness of an argument based on data and communicate their findings.</p>	<p>TE: T134–T137, 251, 254 SB: 251, 254</p>
<p>10.B.3 Formulate questions (e.g., relationships between car age and mileage, average incomes and years of schooling), devise and conduct experiments or simulations, gather data, draw conclusions and communicate results to an audience using traditional methods and contemporary technologies</p>	<p>TE: T134–T137, 247–252 SB: 247–252</p>
<p>10.C.3a Determine the probability and odds of events using fundamental counting principles.</p>	<p>TE: T134–T137, T141, 255–262 SB: 255–262</p>
<p>10.C.3b Analyze problem situations (e.g., board games, grading scales) and make predictions about results.</p>	<p>TE: 247–248, 254 SB: 247–248, 254</p>

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<p>6.A.3 Represent fractions, decimals, percentages, exponents and scientific notation in equivalent forms.</p>	<p>TE: T16–T19, T24, T30–T33, T134–T37, 22–23, 33–34, 45–53, 115–120, 122, 129–130, 243–245, 254–255 SB: 22–23, 33–34, 45–53, 115–120, 122, 129–130, 243–245, 254–255</p>
<p>6.B.3a Solve practical computation problems involving whole numbers, integers and rational numbers.</p>	<p>There are many opportunities for students to solve computation problems. These are a few of the many examples. TE: 4–9, 11, 13, 14–21, 23, 26–28, 217–238 SB: 4–9, 11, 13, 14–21, 23, 26–28, 217–238</p>
<p>6.B.3b Apply primes, factors, divisors, multiples, common factors and common multiples in solving problems.</p>	<p>TE: T30–T33, T36, 16, 45–46 SB: 16, 45–46</p>
<p>6.B.3c Identify and apply properties of real numbers including pi, squares, and square roots.</p>	<p>TE: T16–T19, T23, T1434–T138, T148–T151, T159, 16–18, 19–21, 24–25, 104, 243–245, 277–279, 308–310 SB: 16–18, 19–21, 24–25, 104, 243–245, 277–279, 308–310</p>
<p>6.C.3a Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions.</p>	<p>There are many opportunities for students to select computational procedures and solve problems. These are a few of the many examples. TE: 4–9, 11, 13, 14–21, 23, 26–28, 217–238 SB: 4–9, 11, 13, 14–21, 23, 26–28, 217–238</p>
<p>6.C.3b Show evidence that computational results using whole numbers, fractions, decimals, percents and proportions are correct and/or that estimates are reasonable.</p>	<p>TE: 9–15, 18, 26, 27–28, 37–38, 57–58, 63, 65–66, 81–82, 93–94, 109–110, 123–124, 135–136, 147–148, 165–166, 173–174, 193–194, 209–210, 225–226, 237–238, 252–253, 257, 259, 266–267, 289–290, 306–307, 332–333, 340–341 SB: 9–15, 18, 26, 27–28, 37–38, 57–58, 63, 65–66, 81–82, 93–94, 109–110, 123–124, 135–136, 147–148, 165–166, 173–174, 193–194, 209–210, 225–226, 237–238, 252–253, 257, 259, 266–267, 289–290, 306–307, 332–333, 340–341</p>
<p>6.D.3 Apply ratios and proportions to solve practical problems.</p>	<p>TE: T62–T65, T66–T68, T76–T79, T80–T84, 99–100, 103–108, 111–113, 114–116, 117–122, 125, 129–149 SB: 99–100, 103–108, 111–113, 114–116,</p>

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	117–122, 125, 129–149
7.A.3a Measure length, capacity, weight/mass and angles using sophisticated instruments (e.g., compass, protractor, trundle wheel).	TE: T104–T107, 185, 195–198 SB: 185, 195–198
7.A.3b Apply the concepts and attributes of length, capacity, weight/mass, perimeter, area, volume, time, temperature and angle measures in practical situations.	TE: T48–T51, T104–T107, 75–82, 84–94, 282–286, 288–290, 292, 295, 297, 305, 307, 310 SB: 75–82, 84–94, 282–286, 288–290, 292, 295, 297, 305, 307, 310
7.B.3 Select and apply instruments including rulers and protractors and units of measure to the degree of accuracy required.	TE: T104–T107, 75–95, 277–308 SB: 75–95, 277–308
7.C.3a Construct a simple scale drawing for a given situation.	TE: T62–T65, T69, 111–113, 209–210 SB: 111–113, 209–210
7.C.3b Use concrete and graphic models and appropriate formulas to find perimeters, areas, surface areas and volumes of two- and three- dimensional regions.	TE: T16–T19, T148–T151, 24–26, 277–290, 293–307 SB: 24–26, 277–290, 293–307
8.A.3a Apply the basic properties of commutative, associative, distributive, transitive, inverse, identity, zero, equality and order of operations to solve problems.	TE: T16–T19, T21, T23, 7–8, 9–13, 16–21, 23, 67, 104, 261–262 SB: 7–8, 9–13, 16–21, 23, 67, 104, 261–262
8.A.3b Solve problems using linear expressions, equations and inequalities.	TE: T16–T19, T134, T137, T143, 9–13, 18–20, 29, 67–68, 69–71, 129–134, 149, 246–247, 252–253, 257–258, 260–262, 266–268, 270–271, 273, 332–333, 329–331, 334–335 SB: 9–13, 18–20, 29, 67–68, 69–71, 129–134, 149, 246–247, 252–253, 257–258, 260–262, 266–268, 270–271, 273, 332–333, 329–331, 334–335
8.B.3 Use graphing technology and algebraic methods to analyze and predict linear relationships and make generalizations from linear patterns.	TE: T164–T168, 317–331, 334–341 SB: 317–331, 334–341
8.C.3 Apply the properties of numbers and operations including inverses in algebraic settings derived from economics, business and the sciences.	TE: 139–145, 173–174, 292 SB: 139–145, 173–174, 292

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<p>8.D.3a Solve problems using numeric, graphic or symbolic representations of variables, expressions, equations and inequalities.</p>	<p>TE: T16–T19, T134, T137, T143, 5–7, 9–13, 18–20, 29, 67–68, 69–71, 106, 129–134, 149, 236, 246–247, 252–253, 257–258, 260–262, 266–268, 270–271, 273, 332–333, 329–331, 334–335 SB: 5–7, 9–13, 18–20, 29, 67–68, 69–71, 106, 129–134, 149, 236, 246–247, 252–253, 257–258, 260–262, 266–268, 270–271, 273, 332–333, 329–331, 334–335</p>
<p>8.D.3b Propose and solve problems using proportions, formulas and linear functions.</p>	<p>TE: T16–T19, T148–T159, T24, T62–T65, T67–T68, 24–26, 103–108, 111–113, 125, 277–313, 334–335 SB: 24–26, 103–108, 111–113, 125, 277–313, 334–335</p>
<p>8.D.3c Apply properties of powers, perfect squares and square roots.</p>	<p>TE: T16–T19, T30–T33, T134–T138, 22–23, 39–41, 42–44, 243–245, 309 SB: 22–23, 39–41, 42–44, 243–245, 309</p>
<p>9.A.3a Draw or construct two- and three-dimensional geometric figures including prisms, pyramids, cylinders and cones.</p>	<p>TE: T104–T107, 181–192, 195–198, 292, 299, 300 SB: 181–192, 195–198, 292, 299, 300</p>
<p>9.A.3b Draw transformation images of figures, with and without the use of technology.</p>	<p>TE: T167–T167, T169, 326–328 SB: 326–328</p>
<p>9.A.3c Use concepts of symmetry, congruency, similarity, scale, perspective, and angles to describe and analyze two- and three-dimensional shapes found in practical applications.</p>	<p>TE: T104–T167, T110, T112, T167–T167, 111–113, 181–182, 185–186, 189–190, 191–192, 195–196, 199–201, 320–325 SB: 111–113, 181–182, 185–186, 189–190, 191–192, 195–196, 199–201, 320–325</p>
<p>9.B.3 Identify, describe, classify and compare two- and three- dimensional geometric figures and models according to their properties.</p>	<p>TE: T104–T167, T110, T112, T167–T167, 181–184, 186–192, 199–203, 207–208, 283–286, 291–292, 296–301, 302–310 SB: 181–184, 186–192, 199–203, 207–208, 283–286, 291–292, 296–301, 302–310</p>
<p>9.C.3a Construct, develop and communicate logical arguments (informal proofs) about geometric figures and patterns.</p>	<p><i>This benchmark is not covered.</i></p>
<p>9.C.3b Develop and solve problems using geometric relationships and models, with</p>	<p>TE: T104–T167, T110, T112, T167–T167, 181–191, 195–210, 277–287, 291–301</p>

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<p>and without the use of technology.</p>	<p>SB: 181–191, 195–210, 277–287, 291–301</p>
<p>9.D.3 Compute distances, lengths and measures of angles using proportions, the Pythagorean theorem and its converse.</p>	<p>TE: T148–T151, T159, 187–190, 308–310 SB: 187–190, 308–310</p>
<p>10.A.3a Construct, read and interpret tables, graphs (including circle graphs) and charts to organize and represent data.</p>	<p>TE: T16–T19, T20, T76–T79, T84, T90–T93, T99, T120–T123, T128, 3–4, 93–94, 89–90, 153–154, 157–158, 147–148, 159–164, 173–174, 204–206, 237–238, 317–324, 329–330, 334–335, 342, 343 SB: 3–4, 93–94, 89–90, 153–154, 157–158, 147–148, 159–164, 173–174, 204–206, 237–238, 317–324, 329–330, 334–335, 342, 343</p>
<p>10.A.3b Compare the mean, median, mode and range, with and without the use of technology.</p>	<p>TE: T16–T19, T20, 3–4, 156, 159–160, 174 SB: 3–4</p>
<p>10.A.3c Test the reasonableness of an argument based on data and communicate their findings.</p>	<p>TE: 161–162, 163–164, 173, 237–238 SB: 161–162, 163–164, 173, 237–238</p>
<p>10.B.3 Formulate questions (e.g., relationships between car age and mileage, average incomes and years of schooling), devise and conduct experiments or simulations, gather data, draw conclusions and communicate results to an audience using traditional methods and contemporary technologies</p>	<p>TE: 153–158, 161–162 SB: 153–158, 161–162</p>
<p>10.C.3a Determine the probability and odds of events using fundamental counting principles.</p>	<p>TE: T90–T93, T98, 165, 167–169, 171–172 SB: 165, 167–169, 171–172</p>
<p>10.C.3b Analyze problem situations (e.g., board games, grading scales) and make predictions about results.</p>	<p>TE: 163–164 SB: 163–164</p>