

Houghton Mifflin Harcourt
***Math Expressions, Grade 6* © 2012**

correlated to the

Pennsylvania Common Core Standards for Mathematics
Grade 6

Standard	Descriptor	Citations
Standards for Mathematical Practice		
•	Make sense of problems and persevere in solving them.	SAB: 5, 9, 10–11, 17, 27, 28, 29, 36, 45, 46, 50, 52, 53, 54, 61, 64, 65, 73–74, 76, 88, 90, 94, 95, 97–98, 104, 110, 114, 123, 124, 130, 132, 136, 147, 157–158, 179, 182, 184, 186–187, 195, 197, 200–202, 203, 204, 207, 209, 213, 215, 216, 217, 220, 223, 230, 231, 233, 237, 248, 252, 253A, 255, 256, 258, 262, 263, 274, 278, 281–282, 283, 287, 290, 291, 299, 300, 303, 312, 322, 329–330, 333, 338, 339, 344, 347–348, 355–356, 368, 373, 378, 380 TE: 1F, 1P, 3, 8, 22–23, 25–26, 42, 46–47, 50, 54–55, 62, 77, 80, 85, 86, 88, 112, 113, 123L, 127, 128, 132, 136, 140, 141, 143, 145, 146, 150, 158, 161, 166, 170, 174, 176–177, 182, 188, 193–194, 199, 209N, 213, 224, 225, 230, 235, 240, 250, 252, 253, 254, 268, 270, 276, 284, 290, 294, 310, 313–314, 318, 321–322, 326, 337, 344, 350, 352, 358, 365L, 373, 380, 408–409, 417N, 426, 439, 456–457, 460, 466, 469, 471–472, 483, 492, 497, 507–509, 515, 517, 524–525, 528, 536, 538–540, 541, 548, 556, 559, 560, 561, 567, 576, 580, 581, 587, 598, 609L, 616, 620, 626, 630, 631, 637, 638, 642, 644, 652, 656, 665N, 670, 676, 678, 679, 682, 690, 691, 696, 702–704, 705, 710, 713, 720, 724, 739, 744–745, 747, 761, 780, 781, 791N, 796, 818–820, 824, 834, 838, 843, 844, 845, 852, 853, 856, 863–864, 884–885, 895M, 916, 919, 931, 948, 950, 956, 962, 966

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Standard	Descriptor	Citations
•	Reason abstractly and quantitatively.	<p>SAB: 13, 26, 31, 36, 46, 76, 83, 84, 93, 100, 112, 115, 126, 127, 133, 137, 138, 158, 169, 170, 175, 183, 185, 192, 199, 220–221, 225, 227, 237, 250, 264, 278, 285, 344, 349, 352, 355, 364, 366A–366B, 372, 376A–376B, 382</p> <p>TE: 1Q, 21, 25, 31, 54, 71, 72, 76, 84, 86, 89, 94, 95–96, 113, 123M, 128, 199, 209O, 212, 215, 222, 226, 230–231, 233, 241, 250–251, 260, 262, 286, 292, 293, 295, 320, 321, 327–328, 345, 356, 357, 365M, 404, 409, 417O, 420, 429, 430, 432, 436, 446, 447, 456, 467, 470, 481, 484, 495, 496, 506, 514, 529, 556–557, 559, 561, 568, 570, 579, 598, 609M, 611, 623, 657, 665O, 678, 692, 696, 702, 710, 727, 746, 782, 791O, 805, 810, 819, 825, 852, 856, 862, 865, 870, 872, 884, 886, 895N, 898, 902, 907, 908, 930, 942, 954, 967</p>
•	Construct viable arguments and critique the reasoning of others.	<p>SAB: 3, 15, 20, 25, 28, 32, 33, 45, 49, 52, 58, 85, 86, 90, 96, 101, 106, 113, 116, 117, 120, 128, 134, 135, 144, 151, 168, 174, 188, 189, 194, 205, 224, 228, 232, 236, 247, 259–260, 264, 276, 280, 282, 287, 294, 300, 301, 305–306, 308–309, 312, 320, 324, 328, 332, 334, 335, 342, 343, 346, 350, 351–352, 366, 369, 371, 376, 379</p> <p>TE: 1R, 6, 13, 16, 36–37, 48, 54, 56, 62, 69, 79, 97, 102, 107, 114, 123N, 127, 135, 143, 154, 158, 200, 209P, 217–218, 235, 253, 263, 272, 291, 297, 302, 303, 306, 329, 334, 342, 346, 351, 365N, 369, 378, 389, 410, 417P, 428, 436, 442, 452, 456, 462, 468, 473, 478, 488, 500, 519, 562, 572, 582, 594, 600, 609N, 614, 620, 630, 636, 642, 648, 649–650, 657, 658, 665P, 683, 689, 698, 702, 704, 713, 718, 729, 739, 746, 747, 755, 762, 765–766, 772–773, 780, 781, 782, 791P, 794, 800, 803, 814, 828, 832, 835, 837, 848, 855, 858, 866, 871–872, 876, 880, 886, 895O, 906, 917, 918, 919, 924, 927, 929, 940, 941, 956, 957, 968</p>

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Standard	Descriptor	Citations
<ul style="list-style-type: none"> • 	Model with mathematics.	SAB: 16, 23, 36, 43, 44, 46, 55A, 55–56, 60, 62, 67, 75, 83A–83B, 84, 114, 138, 145A, 149A–149C, 149E, 153A, 153C, 153E, 153G–153I, 157, 170, 172, 177, 180–181, 184, 187, 190, 197, 200, 202, 208, 209, 215, 217, 237, 245A, 252, 253A, 254, 257, 261, 264, 279, 281, 292, 297, 299, 300, 303, 312, 343, 347, 352, 354, 355 TE: 1F, 1S, 38, 45–48, 54–55, 58, 62, 64, 68, 70, 71, 78, 96, 113, 123F, 123O, 124, 125, 126, 128, 133, 140, 141, 144, 150, 151, 152–153, 158, 160, 162, 166–167, 174–175, 182–183, 189, 198, 209Q, 211, 215, 268, 294, 322, 326, 357, 365O, 368, 379–380, 383–384, 389, 395–396, 397, 403, 408, 417Q, 430, 432, 438–439, 450, 452, 458–459, 462, 466, 468, 472, 480, 483, 497, 507, 509, 527, 528, 540, 548, 550, 559, 561, 567, 577, 588, 598, 609O, 610, 612, 613, 624, 626, 631–632, 634, 635, 636, 643, 648, 651, 657, 665Q, 667, 670, 676, 689, 690, 697, 703, 726–727, 734, 738–739, 745, 747, 761, 781, 791Q, 801, 811, 825, 828, 833, 836, 843, 845, 853, 855, 863, 870, 872, 878, 884, 895P, 903–904, 913, 915, 918, 925–927, 938, 940, 947, 948, 954, 955, 956, 958, 960–961, 968
<ul style="list-style-type: none"> • 	Use appropriate tools strategically.	SAB: 17, 36, 51A, 60, 63A, 63C, 67, 76, 83A–83B, 84, 104, 138, 143A, 145A, 149E, 153E, 158, 169, 172, 238, 249A, 253A, 264, 343, 354, 356 TE: 1T, 4, 25, 30, 44, 48, 58, 68, 70, 71, 78, 113, 123F, 123P, 124, 133, 140, 142, 144, 152, 160, 167–168, 175, 182–183, 189, 199, 209R, 211, 215, 270, 357, 365P, 366, 368, 370, 380, 389, 396, 403, 409, 417R, 429, 438, 452, 550, 588, 599, 609P, 612, 621, 624, 631–632, 634, 636, 657, 665R, 667, 670, 689, 781, 791R, 801, 811, 855, 858, 885, 895Q, 913, 915, 918, 925–927, 938, 940, 947, 948, 954, 955, 956, 958, 960–961, 968

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Standard	Descriptor	Citations
•	Attend to precision.	<p>SAB: 20, 21, 28, 45, 49, 52, 53, 54, 58, 63–64, 66, 69, 70, 75, 76, 84, 85, 86, 88, 106, 108, 116, 120, 132, 134, 143A, 143, 144, 149A–149C, 151, 158, 168, 171, 174, 183, 188, 192, 194, 198, 205, 216, 224, 228, 232, 236, 247, 253, 255, 259–260, 264, 280, 284, 287, 289, 294, 306, 312, 324, 328, 332, 334, 342, 346, 350, 366, 371, 376, 381</p> <p>TE: 1U, 30, 42, 48, 54, 56, 57–58, 62, 68, 79, 88, 102, 108, 114, 123F, 123Q, 125, 127, 132, 135, 140, 143, 145, 146, 150, 154, 158, 166–167, 169–170, 174, 177–178, 189, 190, 198, 199, 200, 209S, 216, 217–218, 222, 224, 240, 250, 272, 278, 282, 290, 297, 302, 306, 310, 318, 326, 344, 346, 358, 365Q, 366, 367, 368, 369, 370, 379, 384, 388, 389, 394, 402, 409, 410, 417S, 428, 436–437, 442, 446, 452, 466, 473, 484, 488, 492, 499, 500, 504, 514, 519, 524, 536, 541, 546, 554, 562, 566, 572, 577, 582, 586, 588, 594, 600, 609Q, 614, 620, 630, 633, 636, 637, 642, 648, 649–650, 657, 658, 665S, 688, 689, 696, 698, 702, 706, 710, 713, 718, 719, 724, 729, 734, 744, 748, 754, 760, 766, 770, 780, 781, 782, 791R, 803, 813, 814, 828, 833, 835, 836, 842, 843, 845, 848, 852, 858, 866, 871, 876, 886, 895R, 904, 906, 912, 918, 919, 929, 936, 937, 941, 946, 966, 968</p>
•	Look for and make use of structure.	<p>SAB: 10, 13, 14, 18, 24, 30, 47, 48, 50, 51A, 63, 68, 72, 76, 83, 92, 126, 138, 153G–153I, 175, 198, 217, 221, 231, 238, 248, 249, 273, 285, 288, 302, 335, 337, 345, 382</p> <p>TE: 1V, 4, 23–24, 25, 30, 31–32, 49, 64, 76, 78, 87, 114, 123R, 124, 133, 134, 136, 140, 142, 169, 184, 188, 192, 199, 200, 209T, 212, 245, 292, 298, 320, 357, 365R, 397–398, 410, 417T, 419, 446, 461, 495, 498, 504, 548, 557, 581, 590, 599, 609R, 610, 612, 616, 622, 625, 658, 665T, 667, 677, 680, 690, 696, 710, 714, 756, 782, 791S, 837, 838, 854, 857, 895S, 897, 955, 967</p>

Standard	Descriptor	Citations
•	Look for and make sense of regularity in repeated reasoning.	SAB: 5, 13, 48, 51A, 63, 84, 91, 94, 118, 129, 130, 131, 181, 189, 212, 230, 251–252, 271, 272, 293, 301, 321, 324, 328, 337, 343, 345, 352, 356 TE: 1W, 3, 21, 23, 30–31, 76, 84, 114, 123S, 124–125, 134, 141, 142, 154, 169, 182, 184, 190, 200, 209U, 215, 222, 232–233, 242, 244, 245, 252, 261, 293, 304, 310, 328, 330, 335, 337, 343, 350, 358, 365S, 384, 398, 410, 417U, 459, 479, 495, 532, 580, 586, 590, 600, 609S, 625–626, 658, 665U, 669–670, 672, 684, 728, 748, 755, 763, 782, 791T, 795, 803, 813, 814, 818, 832, 834, 838, 842, 852, 855, 857, 862, 870, 872, 880, 885, 895T, 902, 913, 915, 918, 919, 924, 928, 940, 947, 948, 955, 958, 960–961, 968
2.1 Numbers and Operations		
2.1.6 Pennsylvania’s public schools shall teach, challenge, and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:		
(D) Ratios & Proportional Relationships		
CC.2.1.6.D.1	Understand ratio concepts and use ratio reasoning to solve problems. M06.A-R.1.1.1 M06.A-R.1.1.2 M06.A-R.1.1.3 M06.A-R.1.1.4 M06.A-R.1.1.5	SAB: 23, 24, 25, 26, 27, 28, 30, 33, 35, 271, 272, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290 TE: 62, 63–64, 65–66, 68, 69–72, 73–74, 76–77, 78–80, 81–82, 85, 86–88, 89–90, 102, 103–104, 105–106, 108, 109–110, 112, 666, 667–669, 670–672, 673–674, 702, 703–704, 705–706, 707–708, 710, 711–714, 715–716, 718, 719–720, 721–722

Standard	Descriptor	Citations
(E) The Number System		
CC.2.1.6.E.1	Apply and extend previous understandings of multiplication and division to divide fractions by fractions. M06.A-N.1.1.1	SAB: 125, 126, 127, 128,130, 132, 135 TE: 319–320, 324, 326, 327–330, 331–332, 336–338, 339–340, 344, 348, 351
CC.2.1.6.E.2	Identify and choose appropriate processes to compute fluently with multi-digit numbers. M06.A-N.2.1.1	SAB: 84, 86, 89, 90, 91, 92, 97 TE: 213–216, 218, 219–220, 230, 231–236, 237–238, 240, 241–246, 247–248, 250, 251, 254, 255–256
CC.2.1.6.E.3	Develop and/or apply number theory concepts to find common factors and multiples. M06.A-N.2.2.1 M06.A-N.2.2.2 A1.1.1.2.1	SAB: 107, 115, 119, 198 TE: 275, 277, 302, 305, 498–499
CC.2.1.6.E.4	Apply and extend previous understandings of numbers to the system of rational numbers. M06.A-N.3.1.1 M06.A-N.3.1.2 M06.A-N.3.1.3 M06.A-N.3.2.1 M06.A-N.3.2.2 M06.A-N.3.2.3	SAB: 365, 366, 366A–366B, 367, 368, 369, 370, 375, 376, 376A–376B, 377, 378 TE: 903–905, 906–907, 908, 909–910, 912, 913–914, 915–918, 919–920, 921–922, 924, 937–939, 940–941, 942, 943–944, 946, 947–949, 950, 951–952, 954

Standard	Descriptor	Citations
2.2 Algebraic Concepts		
2.2.6 Pennsylvania's public schools shall teach, challenge, and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:		
(B) Expressions and Equations		
CC.2.2.6.B.1	<p>Apply and extend previous understandings of arithmetic to algebraic expressions.</p> <p>M06.B-E.1.1.1 M06.B-E.1.1.2 M06.B-E.1.1.3 M06.B-E.1.1.4 M06.B-E.1.1.5</p>	<p>SAB: 166, 167, 168, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 190, 191, 192, 194, 195, 196, 197, 198, 199, 200, 210, 202</p> <p>TE: 420–422, 423–424, 427–428, 434, 436, 437, 438–442, 443–444, 446, 447–452, 453, 454, 456, 457, 458–459, 460–462, 463–464, 466, 467–474, 475–476, 480–481, 482–483, 484–485, 488, 489–490, 492–495, 496–500, 501–502, 505–510, 511–512</p>
CC.2.2.6.B.2	<p>Understand the process of solving a one-variable equation or inequality and apply it to real-world and mathematical problems.</p> <p>M06.B-E.2.1.1 M06.B-E.2.1.2 M06.B-E.2.1.3 M06.B-E.2.1.4</p>	<p>SAB: 217, 218, 219, 220, 221, 222, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237</p> <p>TE: 547–550, 551–552, 554, 555–558, 563–564, 566, 567–569, 570–572, 573–574, 576, 577–582, 583–584, 586, 587–594, 595–596, 598, 602</p>
CC.2.2.6.B.3	<p>Represent and analyze quantitative relationships between dependent and independent variables.</p> <p>M06.B-E.3.1.1 M06.B-E.3.1.2</p>	<p>SAB: 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216</p> <p>TE: 514, 515–517, 518–520, 521–522, 525–532, 533–534, 536–537, 538–542, 543–544</p>
(C) Functions		
	N/A	

Standard	Descriptor	Citations
2.3 Geometry		
2.3.6 Pennsylvania’s public schools shall teach, challenge, and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:		
(A) Geometry		
CC.2.3.6.A.1	<p>Apply appropriate tools to solve real-world and mathematical problems involving area, surface area, and volume.</p> <p>M06.C-G.1.1.1 M06.C-G.1.1.2 M06.C-G.1.1.3 M06.C-G.1.1.4 M06.C-G.1.1.5 M06.C-G.1.1.6</p>	<p>SAB: 47, 48, 49, 50, 51, 51A, 52, 53, 54, 55A, 55, 56, 57, 58, 59, 60, 61, 62, 63A, 63C, 63, 64, 65, 66, 67, 68, 145, 146, 148, 151, 152, 144, 145, 159, 246, 247, 248, 249, 250, 251, 252, 253A, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264</p> <p>TE: 133–136, 137–138, 140–143, 144–145, 146, 147–148, 150–151, 152–153, 154, 155–156, 159–160, 161–162, 163–164, 167–168, 169, 170, 171–172, 174, 175–178, 179–180, 182–183, 184, 185–186, 370–372, 374, 375–376, 378, 383–384, 385–386, 388, 389–390, 391–392, 403–404, 405–406, 409, 411–412, 610–612, 613–614, 615–616, 617–618, 620, 622–623, 624–626, 627–628, 630, 631–633, 634–635, 636–638, 642, 643, 644, 645–646, 648, 649–650, 651, 652, 653–654, 656–657, 659–660</p>
2.4 Measurement, Data, and Probability		
2.4.6 Pennsylvania’s public schools shall teach, challenge, and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:		
(B) Statistics and Probability		
CC.2.4.6.B.1	<p>Demonstrate an understanding of statistical variability by displaying, analyzing, and summarizing distributions.</p> <p>M06.D-S.1.1.1 M06.D-S.1.1.2 M06.D-S.1.1.3 M06.D-S.1.1.4</p>	<p>SAB: 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345–346, 347, 348, 349, 350, 351, 352, 353, 355</p> <p>TE: 792–794, 795–796, 797, 798, 800, 801–803, 804–806, 807–808, 810, 811–813, 814, 815–816, 818–820, 821–822, 824, 825–827, 828, 829–830, 832, 833–835, 836–838, 839–840, 842, 843–844, 845–848, 849–850, 852, 853–855, 856, 857–858, 859–860, 862, 863, 864, 865–866, 867–868, 870, 871, 872, 873–874, 876, 877, 879–880, 881–882, 884, 886, 888</p>