

Houghton Mifflin Harcourt
***Math Expressions, Grade 5* © 2013**

correlated to the

Pennsylvania Common Core Standards for Mathematics
Grade 5

Standard	Descriptor	Citations
Standards for Mathematical Practice		
•	Make sense of problems and persevere in solving them.	Representative Pages: SAB: 17, 42, 46, 52, 53, 59, 61, 62, 63, 65, 70 TE: 4, 57, 62, 63, 71, 88, 138, 152, 166, 174, 178, 190, 192, 197, 202, 216, 222, 504, 548
•	Reason abstractly and quantitatively.	Representative Pages: SAB: 176, 179, 187, 189, 191, 192, 215, 229, 249, 273 TE: 2, 9, 11, 19, 451, 458, 466, 476, 477, 484, 485, 491, 492, 507, 515, 548, 558, 576, 594, 610, 630, 637, 643, 656, 673, 722
•	Construct viable arguments and critique the reasoning of others.	Representative Pages: SAB: 109, 116, 124, 135, 138, 158, 168, 178, 187, 189 TE: 21, 30, 286, 306, 320, 322, 339, 350, 357, 365, 366, 378, 394, 413, 434, 446, 457, 466, 476, 478, 484, 500, 550
•	Model with mathematics.	Representative Pages: SAB: 16, 29, 63, 101, 220, 230, 251, 252, 257 TE: 4, 22, 44, 48, 94, 134, 136, 190, 197, 210, 212, 256, 266, 284, 294, 490, 506, 549, 571, 596, 648, 649, 650, 665, 668, 706, 708

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Standard	Descriptor	Citations
•	Use appropriate tools strategically.	Representative Pages: SAB: 8, 41, 66, 142, 181, 210, 228, 230, 257 TE: 2, 8, 21, 26, 36, 96, 137, 205, 377, 424, 464, 490, 549, 584, 586, 590, 596, 600, 648, 665, 667, 678, 717, 724
•	Attend to precision.	Representative Pages: SAB: 23, 24, 27, 46, 48, 68, 87, 113, 114, 117–118, 133 TE: 20, 28, 76, 78, 88, 89, 96, 115, 117, 150, 152, 158, 180, 196, 214, 220, 264, 313, 314, 318, 319, 326, 354, 550
•	Look for and make use of structure.	Representative Pages: SAB: 164, 175, 182, 197, 199, 218, 221, 226, 237, 258 TE: 2, 8, 12, 18, 28, 378, 392, 428, 443, 450, 465, 482, 500, 513, 522, 550, 565, 577, 587, 602, 611, 620, 637, 642, 666, 701, 702
•	Look for and make sense of regularity in repeated reasoning.	Representative Pages: SAB: 164, 177, 178, 219, 241, 243, 251, 255, 266 TE: 19, 27, 392, 405, 428, 437, 456, 457, 466, 550, 570, 576, 584, 586, 602, 618, 624, 649, 654, 659, 691, 692, 724

Standard	Descriptor	Citations
2.1 Numbers and Operations		
<i>2.1.5 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:</i>		
(A) Counting & Cardinality		
	N/A	
(B) Numbers & Operations in Base Ten		
CC.2.1.5.B.1	Apply place-value concepts to show an understanding of operations and rounding as they pertain to whole numbers and decimals. M05.A-T.1.1.1 M05.A-T.1.1.2 M05.A-T.1.1.3 M05.A-T.1.1.4 M05.A-T.1.1.5	SAB: 49, 50 TE: 162–165, 166–168, 169–170
CC.2.1.5.B.2	Extend an understanding of operations with whole numbers to perform operations including decimals. M05.A-T.2.1.1 M05.A-T.2.1.2 M05.A-T.2.1.3	SAB: 42, 43, 44, 45, 46, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176 TE: 134–136, 138, 139–140, 142–144, 145–146, 148–152, 153–154, 338–341, 342–344, 345–346, 348, 349, 350, 351–352, 354–355, 356–357, 358, 359–360, 432–433, 434–438, 439–440, 442–443, 444–446, 447–448, 450, 451–452, 453–453

Standard	Descriptor	Citations
(C) Numbers & Operations — Fractions		
CC.2.1.5.C.1	Use the understanding of equivalency to add and subtract fractions. M05.A-F.1.1.1	SAB: 17, 18, 19, 20, 21, 22, 23, 24 TE: 52–53, 55–58, 59–60, 62, 63–64, 65–66, 68–69, 70–72, 73–74, 76–77, 78, 79–80, 96, 97–98
CC.2.1.5.C.2	Apply and extend previous understandings of multiplication and division to multiply and divide fractions. M05.A-F.2.1.1 M05.A-F.2.1.2 M05.A-F.2.1.3 M05.A-F.2.1.4	SAB: 65, 66, 67, 68, 69, 70, 71, 72, 75, 76, 77, 78 TE: 202–204, 205–206, 207–208, 210–211, 212–216, 217–218, 220–221, 222–224, 225–226, 236–237, 238–239, 240, 241–242
2.2 Algebraic Concepts		
2.2.5 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) Operations and Algebraic Thinking		
CC.2.2.5.A.1	Interpret and evaluate numerical expressions using order of operations. M05.B-O.1.1.1 M05.B-O.1.1.2	SAB: 217, 218, 219, 220 TE: 564, 565–566, 567–568, 570, 571–572, 573–574
CC.2.2.5.A.4	Analyze patterns and relationships using two rules. M05.B-O.2.1.1 M05.B-O.2.1.2	SAB: 221, 222, 223, 224 TE: 576–578, 579–580, 581–582

Standard	Descriptor	Citations
2.3 Geometry		
<i>2.3.5 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:</i>		
(A) Geometry		
CC.2.3.5.A.1	Graph points in the first quadrant on the coordinate plane and interpret these points when solving real world and mathematical problems. M05.C-G.1.1.1 M05.C-G.1.1.2	SAB: 225, 226, 227, 228, 229, 230 TE: 584–585, 586–587, 588–590, 591–592, 594–596, 597–598
CC.2.3.5.A.2	Classify two-dimensional figures into categories based on an understanding of their properties. M05.C-G.2.1.1	SAB: 267, 268, 269, 270, 271, 272, 272A, 272C TE: 697–698, 699–702, 703–704, 706–707, 708–710, 711–712, 714–716, 717–718 719–720
2.4 Measurement, Data, and Probability		
<i>2.4.5 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:</i>		
(A) Measurement and Data		
CC.2.4.5.A.1	Solve problems using conversions within a given measurement system. M05.D-M.1.1.1	SAB: 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250 TE: 610–611, 612–613, 614, 615–616, 618, 619–620, 621–622, 624, 625–626, 627–628, 630–631, 632, 633–634, 636–637, 638, 639–640, 642–643, 644, 645–646
CC.2.4.5.A.2	Represent and interpret data using appropriate scale. M05.D-M.2.1.2	SAB: 251, 252 TE: 648–649, 650, 651–652
CC.2.4.5.A.4	Solve problems involving computation of fractions using information provided in a line plot. M05.D-M.2.1.1	SAB: 252 TE: 650, 651–652
CC.2.4.5.A.5	Apply concepts of volume to solve problems and relate volume to multiplication and to addition. M05.D-M.3.1.1 M05.D-M.3.1.2	SAB: 259, 260, 261, 262, 265, 266 TE: 672–673, 674, 675–676, 678–679, 680, 681–682, 690–692, 693–694