

Houghton Mifflin *MATHEMATICS*
Level 3
correlated to the
Terra Nova Objectives and Subskills

Terra Nova Objective/Subskill	Houghton Mifflin <i>MATHEMATICS</i>
10 Number and Number Relations	
read, recognize numbers	TE: 2, 4–5, 6–10, 11, 16–17, 18–19, 20–21, 24–26, 27, 32–33, 34–35, 54–55, 512–516, 517–518, 520 PE: 2, 4–5, 6–10, 11, 16–17, 18–19, 20–21, 24–26, 27, 32–33, 34–35, 54–55, 512–516, 517–518, 520
compare, order	TE: 20–21, 22–23, 400, 488–489, 490–491, 518–519, 550, 579 PE: 20–21, 22–23, 400, 488–489, 490–491, 518–519, 550, 579
fractional part	TE: 482–483, 484–485, 486–487, 488–489, 490–491, 492–495, 500–501, 502–503, 504–507, 512–517, 523, 539 PE: 482–483, 484–485, 486–487, 488–489, 490–491, 492–495, 500–501, 502–503, 504–507, 512–517, 523, 539
place value	TE: 2, 4, 11, 16–19, 20, 22, 27, 32–33, 34–35, 54–55, 512–517, 518, 520 PE: 2, 4, 11, 16–19, 20, 22, 27, 32–33, 34–35, 54–55, 512–517, 518, 520
equivalent forms	TE: 492–495 PE: 492–495
identify use in real world	TE: 12–13, 29, 37, 43, 60, 65, 77, 82–83, 85, 110–111, 112–113, 120–121, 123, 134–135, 139, 143, 144, 148, 149, 179, 189, 194–195, 225, 235, 239, 265, 272–273, 281, 287, 309, 336–337, 365, 373, 378–379, 385, 405, 413, 420–421, 444, 447, 455, 467, 496–497, 509, 526–527, 561, 571, 583 PE: 12–13, 29, 37, 43, 60, 65, 77, 82–83, 85, 110–111, 112–113, 120–121, 123, 134–135, 139, 143, 144, 148, 149, 179, 189, 194–195, 225, 235, 239, 265, 272–273, 281, 287, 309, 336–337, 365, 373, 378–379, 385, 405, 413, 420–421, 444, 447, 455, 467, 496–497, 509, 526–527, 561, 571, 583
11 Computation and Numerical Estimation	
computation	TE: xxii–xxiii, xiv–xv, 100, 102–103, 104, 105–106, 107, 108–111, 112–113, 116–118, 119, 120–121, 126–127, 128, 129–130, 131, 132–133, 134–135, 138–139, 140–141, 142–143, 210, 212–213, 214–216, 218, 220–221, 222, 228–229, 233, 236–237, 254, 256–257, 258, 260–261, 263, 268, 270–271, 272–273, 274–276, 277, 278–279, 280–281, 352–353, 354–355, 356–359, 360–361,

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computation in context	<p>362–363, 364–365, 368–369, 370–371, 374–375, 377, 378–379, 382, 396–397, 398–400, 402–403, 404–405, 408–409, 410–411, 414–415, 416–417, 420–421, 424–425, 426, 428, 500–501, 504–507, 508–509, 520–522, 526–527, 542, 544–545, 546–549, 560–561, 564–571, 574–575, 580–581, 586–587, 552–559, 564–566, 567–568, 574–575, 576–577, 578–579, 580–581, 582–583, 587–588, 590</p> <p>PE: 100, 102–103, 104, 105–106, 107, 108–111, 112–113, 116–118, 119, 120–121, 126–127, 128, 129–130, 131, 132–133, 134–135, 138–139, 140–141, 142–143, 210, 212–213, 214–216, 218, 220–221, 222, 228–229, 233, 236–237, 254, 256–257, 258, 260–261, 263, 268, 270–271, 272–273, 274–276, 277, 278–279, 280–281, 352–353, 354–355, 356–359, 360–361, 362–363, 364–365, 368–369, 370–371, 374–375, 377, 378–379, 382, 396–397, 398–400, 402–403, 404–405, 408–409, 410–411, 414–415, 416–417, 420–421, 424–425, 426, 428, 500–501, 504–507, 508–509, 520–522, 526–527, 542, 544–545, 546–549, 560–561, 564–571, 574–575, 580–581, 582–583, 586–587, 552–559, 564–566, 567–568, 574–575, 576–577, 578–579, 580–581, 587–588, 590</p> <p>TE: 104, 109, 111, 112–113, 118, 122–123, 124–125, 130, 133, 135, 139, 141, 142–143, 216–217, 219, 221, 222, 223, 224–225, 229, 231, 234–235, 237, 259, 261, 264–265, 269, 271, 272–273, 279, 280–281, 358, 361, 363, 364–365, 371, 375, 378–379, 400, 403, 404–405, 409, 411, 412–413, 415, 417, 420–421, 427, 429, 506, 508–509, 522, 526–527, 545, 550, 553, 557, 559, 560–561, 568, 570–571, 575, 577, 579, 581, 582–583, 586–587, 552–559, 564–566, 567–568, 574–575, 576–577, 578–579, 580–581</p> <p>PE: 104, 109, 111, 112–113, 118, 122–123, 124–125, 130, 133, 135, 136, 137, 139, 141, 142–143, 144, 145, 149, 151, 152–153, 201, 216–217, 219, 221, 222, 223, 224–225, 226–227, 229, 231, 234–235, 237, 245, 247, 259, 261, 264–265, 266–267, 269, 271, 272–273, 279, 280–281, 282, 283, 287, 289, 290–291, 292, 358, 361, 363, 364–365, 366–367, 371, 375, 378–379, 380, 381, 385, 387, 388–389, 390, 400, 403, 404–405, 406–407, 409, 411, 412–413, 415, 417, 420–421, 422, 423, 427, 429, 431, 433, 506, 508–509, 522, 526–527, 533, 545, 550, 553, 555, 557, 559, 560–561, 562, 563, 568,</p>

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Terra Nova Objective/Subskill	Houghton Mifflin <i>MATHEMATICS</i>
estimation	570–571, 575, 577, 579, 581, 582–583, 586–587, 552–559, 564–566, 567–568, 574–575, 576–577, 578–579, 580–581, 584, 585, 589, 591 TE: 10, 23, 37, 60, 106, 134–135, 139, 160–163, 165, 168–171, 174, 182–185, 186–187, 188–189, 190–191, 225, 239, 245, 269, 271, 319, 320–321, 337, 358, 379, 400, 405, 421, 450, 491, 522, 523, 527, 545, 571 PE: 10, 23, 37, 60, 106, 134–135, 139, 160–163, 165, 168–171, 174, 182–185, 186–187, 188–189, 190–191, 225, 239, 245, 269, 271, 319, 320–321, 337, 358, 379, 400, 405, 421, 450, 491, 522, 523, 527, 545, 571
computation with money	TE: 13, 29, 64–65, 77, 105–106, 108–109, 111, 116–117, 120–121, 129–130, 132–133, 143, 219, 231, 319, 325, 371, 373, 379, 403, 405, 409, 420–421, 447, 455, 497, 503, 506, 526–527, 529, 553, 558–559, 578–579, 583 PE: 13, 29, 64–65, 77, 105–106, 108–109, 111, 116–117, 120–121, 129–130, 132–133, 143, 219, 231, 319, 325, 371, 373, 379, 403, 405, 409, 420–421, 447, 455, 497, 503, 506, 526–527, 529, 553, 558–559, 578–579, 583
estimation with money	TE: 60, 106, 225, 239, 337, 379, 405, 421, 491, 522, 527 PE: 60, 106, 225, 239, 337, 379, 405, 421, 491, 522, 527
12 Operation Concepts	
model problem situation	TE: 4–5, 16–17, 104, 126, 128, 212–213, 354–358, 360–363, 488, 490, 492–493, 500, 504–505, 512–517, 546–549, 564–566, 574–575 PE: 4–5, 16–17, 104, 126, 128, 212–213, 354–358, 360–363, 488, 490, 492–493, 500, 504–505, 512–517, 546–549, 564–566, 574–575
operation sense	TE: 10, 60, 64–65, 91, 106, 142–143, 188–189, 191, 201, 216, 259, 280–281, 319, 358, 364–365, 385, 400, 506, 582–583 PE: 10, 60, 64–65, 91, 106, 142–143, 188–189, 191, 201, 216, 259, 280–281, 319, 358, 364–365, 385, 400, 506, 582–583
operation properties	TE: 102–103, 126–127, 214–216, 228–229, 254, 278–279 PE: 102–103, 126–127, 214–216, 228–229, 254, 278–279
13 Measurement	

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appropriate tool	TE: 160–161, 162–163, 168–169, 170–171, 172–173, 176–177, 182–183, 186–187, 190–191, 192–193 PE: 160–161, 162–163, 168–169, 170–171, 172–173, 176–177, 182–183, 186–187, 190–191, 192–193
time	TE: 52, 68–69, 70–72, 74–75, 78–79, 80–82, 83, 84–85, 90–91, 93, 97, 598 PE: 52, 68–69, 70–72, 74–75, 78–79, 80–82, 83, 84–85, 90–91, 93, 97, 598
calendar	TE: 52, 80–82, 90, 97 PE: 52, 80–82, 90, 97
mass, weight	TE: 158–159, 172–174, 190–191, 194–195, 598 PE: 158–159, 172–174, 190–191, 194–195, 598
use ruler	TE: 160–161, 162–163, 182–183 PE: 160–161, 162–163, 182–183
14 Geometry and Spatial Sense	
plane figure	TE: 296–297, 302–307, 328, 331 PE: 296–297, 302–307, 328, 331
congruence, similarity	TE: 296, 312–314, 315, 345 PE: 296, 312–314, 315, 345
symmetry	TE: 316–317 PE: 316–317
visualization, spatial reasoning	TE: 73, 301, 308–309, 315, 343, 445, 506 PE: 73, 301, 308–309, 315, 343, 445, 506
15 Data Analysis, Statistics, and Probability	
read bar graph	TE: 23, 36–37, 43, 45, 47, 118, 130, 174, 330, 375, 436–437, 446–450, 461, 515, 575 PE: 23, 36–37, 43, 45, 47, 118, 130, 174, 330, 375, 436–437, 446–450, 461, 515, 575
read table, chart, diagram	TE: 5, 16, 19, 26, 33, 63, 75, 76, 89, 97, 106, 130, 135, 149, 150, 161, 165, 166, 168–169, 191, 223, 251, 268, 270, 287, 329, 333, 355, 369, 383, 387, 388, 396, 417–418, 433, 436, 438–439, 442, 445, 460–461, 464–465, 477, 495, 522, 525, 557, 559, 565 PE: 5, 16, 19, 26, 33, 63, 75, 76, 89, 97, 106, 130, 135, 149, 150, 161, 165, 166, 168–169, 191, 223, 251, 268, 270, 287, 329, 333, 355, 369, 383, 387, 388, 396, 417–418, 433, 436, 438–439, 442, 445, 460–461, 464–465, 477, 495, 522, 525, 557, 559, 565

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complete/construct data display	TE: 438–439, 454–455, 460–462 PE: 438–439, 454–455, 460–462
probability	TE: 251, 437, 458–459, 460–462, 453, 464–465, 467 PE: 251, 437, 458–459, 460–462, 453, 464–465, 467
use data to solve problems	TE: 19, 23, 36–37, 72, 84–85, 130, 135, 166, 174, 238–239, 271, 330, 361, 375, 409, 417, 436, 438–439, 440–441, 445, 446–447, 464–465, 495, 515, 550, 559, 575, 579 PE: 19, 23, 36–37, 72, 84–85, 130, 135, 166, 174, 238–239, 271, 330, 361, 375, 409, 417, 436, 438–439, 440–441, 445, 446–447, 464–465, 495, 515, 550, 559, 575, 579
16 Patterns, Functions, Algebra	
number pattern	TE: 28–29, 43, 57, 69, 222, 256–257, 265, 270, 274–276, 324–325, 544–545, 590 PE: 28–29, 43, 57, 69, 222, 256–257, 265, 270, 274–276, 324–325, 544–545, 590
geometric pattern	TE: 29, 273, 301, 308–309, 335, 324–325, 343, 373, 487 PE: 29, 273, 301, 308–309, 335, 324–325, 343, 373, 487
use algebra to solve problems	TE: 7, 69, 100, 102–103, 106, 117, 121, 126–127, 130, 150, 165–166, 171, 173, 185, 187, 191, 212, 214, 218–219, 220–221, 223, 228–229, 230, 236–237, 258, 261, 268–269, 335, 354–355, 363, 369, 371, 383, 387, 403, 411, 412–413, 418, 433, 505, 513, 522, 547, 549, 557, 579, 581 PE: 7, 69, 100, 102–103, 106, 117, 121, 126–127, 130, 150, 165–166, 171, 173, 185, 187, 191, 212, 214, 218–219, 220–221, 223, 228–229, 230, 236–237, 258, 261, 268–269, 335, 354–355, 363, 369, 371, 383, 387, 403, 411, 412–413, 418, 433, 505, 513, 522, 547, 549, 557, 579, 581
17 Problem Solving and Reasoning	
solve nonroutine problem	TE: 191, 234–235, 245, 372–373, 385 PE: 191, 234–235, 245, 372–373, 385
deductive/inductive reasoning	TE: 10, 27, 45, 93, 130, 151, 166, 179, 187, 189, 195, 217, 247, 251, 289, 307, 317, 330, 345, 361, 387, 429, 444, 451, 475, 485, 535, 550, 568, 591 PE: 10, 27, 45, 93, 130, 151, 166, 179, 187, 189, 195, 217, 247, 251, 289, 307, 317, 330, 345,

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proportional reasoning	361, 387, 429, 444, 451, 475, 485, 535, 550, 568, 591 TE: 487, 489, 491, 493, 497 PE: 487, 489, 491, 493, 497
18 Communication	
relate models to ideas	TE: 4–5, 16–17, 104, 126, 128, 212–213, 354–358, 360–363, 488, 490, 492–493, 500, 504–505, 512–517, 546–549, 564–566, 574–575 PE: 4–5, 16–17, 104, 126, 128, 212–213, 354–358, 360–363, 488, 490, 492–493, 500, 504–505, 512–517, 546–549, 564–566, 574–575
explain thinking	TE: 5, 7, 13, 14, 15, 19, 23, 33, 48, 57, 60,85, 103, 121, 123, 127, 133, 166, 169, 174, 191, 193, 195, 201, 217, 237, 245, 251, 271, 279, 287, 289, 291, 305, 307, 314, 317, 321, 330, 333, 337, 347, 356, 361, 375, 385, 388–389, 400, 409, 421, 432, 441, 453, 465, 467, 468, 495, 499, 506, 550, 553, 568, 571 PE: 593 5, 7, 13, 14, 15, 19, 23, 33, 48, 57, 60,85, 103, 121, 123, 127, 133, 166, 169, 174, 191, 193, 195, 201, 217, 237, 245, 251, 271, 279, 287, 289, 291, 305, 307, 314, 317, 321, 330, 333, 337, 347, 356, 361, 375, 385, 388–389, 400, 409, 421, 432, 441, 453, 465, 467, 468, 495, 499, 506, 550, 553, 533, 537, 538, 568, 571, 591
explain solution process	TE: 5, 7, 13, 14, 15, 19, 23, 33, 48, 57, 60,85, 103, 121, 123, 127, 133, 166, 169, 174, 191, 193, 195, 201, 217, 237, 245, 251, 271, 279, 287, 289, 291, 305, 307, 314, 317, 321, 330, 333, 337, 347, 356, 361, 375, 385, 388–389, 400, 409, 421, 432, 441, 453, 465, 467, 468, 495, 499, 506, 550, 553, 568, 571 PE: 593 5, 7, 13, 14, 15, 19, 23, 33, 48, 57, 60,85, 103, 121, 123, 127, 133, 166, 169, 174, 191, 193, 195, 201, 217, 237, 245, 251, 271, 279, 287, 289, 291, 305, 307, 314, 317, 321, 330, 333, 337, 347, 356, 361, 375, 385, 388–389, 400, 409, 421, 432, 441, 453, 465, 467, 468, 495, 499, 506, 550, 553, 533, 537, 538, 568, 571, 591
Mathematics Computation	
43 Add Whole Numbers	
no regrouping	TE: 102–103, 107, 110–111, 112–113, 154 PE: 102–103, 107, 110–111, 112–113, 154
regrouping	TE: 104–106, 108–109, 116–118, 120–121 PE: 104–106, 108–109, 116–118, 120–121

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<p>44 Subtract Whole Numbers</p> <p>no regrouping</p> <p>regrouping</p>	<p>TE: 126–127, 131, 134–135, 136 PE: 126–127, 131, 134–135, 136, 144, 152</p> <p>TE: 128–130, 132–133, 138–139, 140–141 PE: 128–130, 132–133, 138–139, 140–141</p>
<p>45 Multiply Whole Numbers</p> <p>no regrouping</p> <p>regrouping</p>	<p>TE: 210, 212–213, 214–216, 218–219, 220–221, 222–223, 228–229, 230–231, 233, 236–237, 254, 256–257, 258–259, 260–261, 263, 268–269, 270–271, 274–276, 277, 278–279, 293, 356–358, 360–363, 370, 374, 382, 396–397, 398–400, 402, 408, 410, 414, 416, 419, 424, 428, 544–545, 544–545, 546–549, 550–559, 568, 580, 586–587, 590 PE: 210, 212–213, 214–216, 218–219, 220–221, 222–223, 228–229, 230–231, 233, 236–237, 254, 256–257, 258–259, 260–261, 263, 268–269, 270–271, 274–276, 277, 278–279, 293, 356–358, 360–363, 370, 374, 382, 396–397, 398–400, 402, 408, 410, 414, 416, 419, 424, 428, 544–545, 544–545, 546–549, 550–559, 568, 580, 586–587, 590</p> <p>TE: 548–550, 552–553, 556–557, 558–559 PE: 548–550, 552–553, 554, 556–557, 558–559, 562, 586, 590, 592</p>
<p>46 Divide Whole Numbers</p> <p>no remainder</p>	<p>TE: 352–353, 354–355, 356–358, 359, 360–363, 368–369, 370–371, 374–375, 377, 378–379, 382, 396–397, 398–400, 402–403, 408, 410–411, 408–409, 414–415, 416–417, 418, 419, 424, 425–426, 428, 500–501, 542, 564–566, 567, 568–569, 574–575, 576–577, 578–579, 580–581 PE: 352–353, 354–355, 356–358, 359, 360–363, 368–369, 370–371, 374–375, 377, 378–379, 382, 396–397, 398–400, 402–403, 408, 410–411, 408–409, 414–415, 416–417, 418, 419, 424, 425–426, 428, 500–501, 542, 564–566, 567, 568–569, 574–575, 576–577, 578–579, 580–581</p>
<p>47 Decimals</p> <p>addition</p> <p>subtraction</p>	<p>TE: 520–522 PE: 520–522</p> <p>TE: 520–522</p>

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	PE: 520–522
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