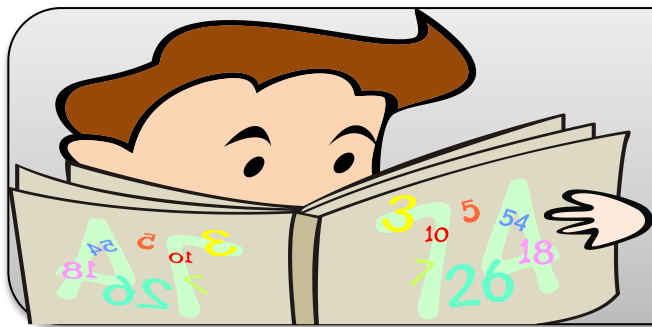




Grade 6

Math Module &

Pearson Pacing Guide

September - October

6.NS. 1,2,3,4 - Module 2: 22 days for all lessons, assessments, and remediation

Pearson: 35 days for all lessons, reteaching, and assessments

Week 1: Review

Number System

Weeks: 2 & 3

Topic A: Dividing Fractions by Fractions (6.NS.1)... 9

Lessons 1–2: Interpreting Division of a Whole Number by a Fraction

—Visual Models... 10 (1 Day)

Lessons 3–4: Interpreting and Computing Division of a Fraction by a Fraction

—More Models... 27 (1 Day)

Lesson 5: Creating Division Stories... 46

Lesson 7: The Relationship Between Visual Fraction Models and Equations... 64

Lesson 8: Dividing Fractions and Mixed Numbers... 73

Topic B: Multi-Digit Decimal Operations

—Adding, Subtracting, and Multiplying (6.NS.3)... 79

Lesson 9: Sums and Differences of Decimals... 80

Lesson 10: The Distributive Property and Product of Decimals... 86

Lesson 11: Fraction Multiplication and the Products of Decimals... 91

Mid-Module Assessment and Rubric... 96

Topics A through B

(assessment 1 day, return/ remediation or further applications 1 day)

Weeks 4 & 5

Topic C: Dividing Whole Numbers and Decimals (6.NS.2, 6.NS.3)... 109

Lesson 13: Dividing Multi-Digit Numbers Using the Algorithm... 119

Lesson 14: The Division Algorithm

—Converting Decimal Division into Whole Number Division Using Fractions... 127

Pearson

5-4

5-5

5-6

RT, p. 141 sets D,E

6-1

6-2

6-3

6-4

RT, p. 158 sets A-D

7-1

7-3

7-5

7-6

8-1

8-3

8-4

RT, p. 198 sets A-D

9-1

9-2

9-3

9-5

RT, p. 218 sets A-D

1-1

1-2

2-6

3-5

4-4 RT, p.117 set D

1-4

1-5

1-6

1-7 RT, p.28 sets A,C – F



Lesson 15: The Division Algorithm

—Converting Decimal Division into Whole Number
Division Using Mental Math... 135

Topic D: Number Theory

—Thinking Logically About Multiplicative Arithmetic
(6.NS.4)... 147

Lesson 16: Even and Odd Numbers... 148

Lesson 17: Divisibility Tests for 3 and 9... 156

Lesson 18: Least Common Multiple and Greatest Common
Factor... 163

Lesson 19: The Euclidean Algorithm as an
Application of the Long Division Algorithm... 178

End-of-Module Assessment and Rubric 186

Topics A through D

(assessment 1 day, return/remediation or further applications 1 day)

RT, p.58 sets E,F

3-2

3-4

3-6

3-7

3-10

RT, p. 90 sets A-D,F,G,J

6-5 RT, p. 159 set E

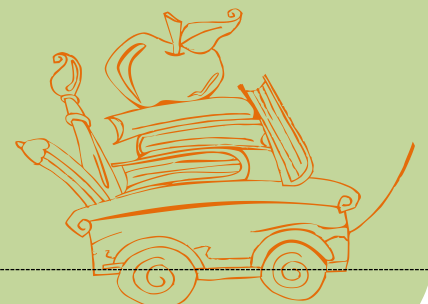
5-1

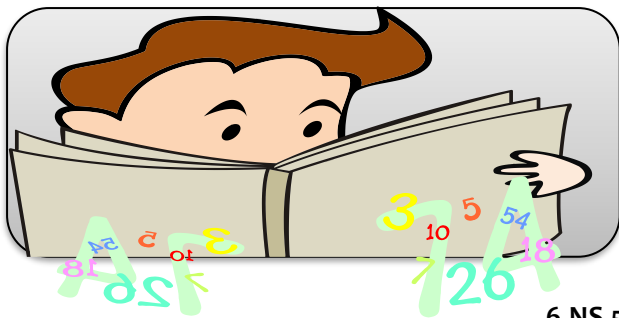
5-2

5-3

RT, p. 140 sets A-C,F

7-2 RT, p. 182 set B





October & November

6.NS.5, 6a, 6b, 6c, 7a, 7b, 7c, 7d, 8

Module 3: 20 Days for all lessons, assessments, and remediation

Pearson: 10 days for all lessons, reteaching, and assessments

Number System

Weeks 6-8

Topic A: Understanding Positive and Negative Numbers on the Number Line

(6.NS.C.5, 6.NS.C.6a, 6.NS.C.6c)... 9

Lesson 1: Positive and Negative Numbers on the Number Line

—Opposite Direction and Value... 11

Lessons 2–3: Real-World Positive and Negative Numbers and Zero .19 (1 day)

*Lesson 4: The Opposite of a Number... 36

*Lesson 5: The Opposite of a Number's Opposite... 45

Lesson 6: Rational Numbers on the Number Line... 51

*Combine – 1 Day

Topic B: Order and Absolute Value (6.NS.C.6c, 6.NS.C.7)... 61

Lessons 7–8: Ordering Integers and Other Rational Numbers... 63 (1 day)

Lesson 9: Comparing Integers and Other Rational Numbers... 79

Lesson 10: Writing and Interpreting Inequality Statements Involving Rational Numbers... 88

Lesson 11: Absolute Value—Magnitude and Distance... 98

Lesson 12: The Relationship Between Absolute Value and Order... 106

Lesson 13: Statements of Order in the Real World... 114

Mid-Module Assessment and Rubric... 121

Topics A through B (assessment 1 day, return/remediation or further applications 1 day)

Weeks: 9-11

Topic C: Rational Numbers and the Coordinate Plane (6.NS.C.6b, 6.NS.C.6c, 6.NS.C.8)... 136

Lesson 14: Ordered Pairs... 138

Lesson 15: Locating Ordered Pairs on the Coordinate Plane... 145

Lesson 16: Symmetry in the Coordinate Plane... 153

Lesson 17: Drawing the Coordinate Plane and Points on the Plane... 160

Lesson 18: Distance on the Coordinate Plane... 169

Lesson 19: Problem-Solving and the Coordinate Plane... 174

End-of-Module Assessment and Rubric... 180

Topics A through C (assessment 1 day, return/remediation or further applications 1 day)

Pearson

9-7 RT, p. 219 set F

10-1

10-2

10-3

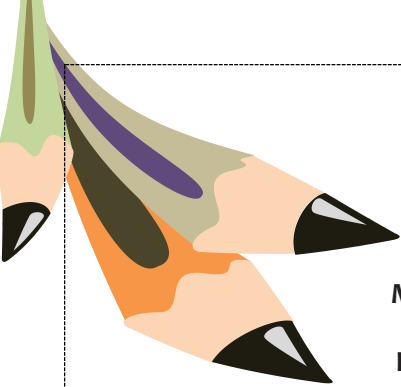
10-8

10-9

10-10

RT, p. 256 sets A,B,C,
G,H,I





December & January

6.EE.1,2a,2b,2c,3,4

Module 4: 33 days includes all lessons, assessments, and remediation

Pearson: 28 days including all lessons, reteaching, and assessments

Expressions and Equations

Weeks 12 - 15

Topic A: Relationships of the Operations (**6.EE.A.3**)... 12

Lesson 1: The Relationship of Addition and Subtraction... 14

Lesson 2: The Relationship of Multiplication and Division... 23

Lesson 3: The Relationship of Multiplication and Addition... 32

Lesson 4: The Relationship of Division and Subtraction... 38

Topic B: Special Notations of Operations (**6.EE.A.1**, **6.EE.A.2c**)... 47

Lesson 5: Exponents... 49

Lesson 6: The Order of Operations... 59

Topic C: Replacing Letters and Numbers (**6.EE.A.2c**, **6.EE.A.4**)... 68

*Lesson 7: Replacing Letters with Numbers... 70

*Lesson 8: Replacing Numbers with Letters... 80

*Combine – 1 Day

Topic D: Expanding, Factoring, and Distributing Expressions

(**6.EE.A.2a**, **6.EE.A.2b**, **6.EE.A.3**, **6.EE.A.4**)... 92

Lesson 9: Writing Addition and Subtraction Expressions... 94

Lesson 10: Writing and Expanding Multiplication

Expressions... 101

Lesson 11: Factoring Expressions... 113

Lesson 12: Distributing Expressions... 125

Lessons 13–14: Writing Division Expressions... 133 (1 day)

Topic E: Expressing Operations in Algebraic Form (**6.EE.A.2b**)... 146

Lesson 15: Read Expressions in Which Letters Stand for Numbers... 147

Lessons 16–17: Write Expressions in Which Letters Stand for Numbers... 152 (1 day)

Mid-Module Assessment and Rubric... 171

Topics A through E

(assessment 1 day, return/remediation or further applications 1day)

Pearson

1-3 RT, p. 28, set B

2-1

2-7

2-8

RT, p. 56, sets A, F, G, H

3-8 RT, p. 92, set H

17-1

17-2

17-3

RT, p. 450, sets A & B

2-2

2-3

2-4

RT, p. 56, sets B – D, F

4-1 RT, p. 116, set A

3-9 RT, p. 93, set I

4-2

15-7

RT, p. 397, sets F & G

4-3

4-5

RT, p. 116, sets B – E

9-6 RT, p. 219, set E

11-9 RT, p. 297, set G

12-5 RT, p. 319, set E

15-1

15-2

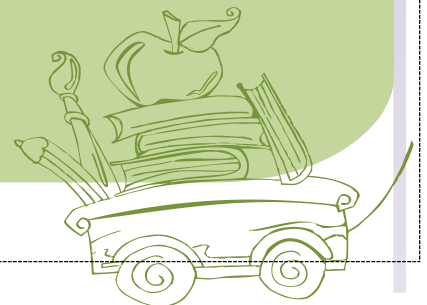
15-3

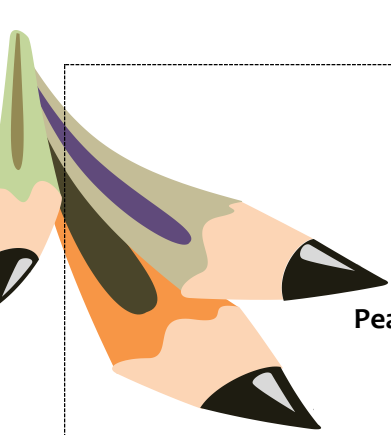
15-4

15-5

15-6

RT, p. 395, sets A - E





~February and March~

6.RP.1,2,3a,b,c,d - Module 1: 27 days for all lessons, assessments, and remediation

Pearson: 28 days for all lessons, reteaching, and assessments, Topics: 7 (7-7), 12, 13, 14, 16

Ratios and Proportional Relationships

Weeks 20-22

Module 1: Topic A: Representing and Reasoning About Ratios (**6.RP.1, 6.RP.3a**)... 9/ **Pearson**

Lessons 1-2: Ratios... 11

Lessons 3-4: Equivalent Ratios... 24

Lessons 5-6: Solving Problems by Finding Equivalent Ratios... 39 (1 day)

Lesson 7: Associated Ratios and the Value of a Ratio... 49

Lesson 8: Equivalent Ratios Defined Through the Value of a Ratio... 55

Topic B: Collections of Equivalent Ratios (**6.RP.3a**)... 61

Lesson 9: Tables of Equivalent Ratios... 63

Lesson 10: The Structure of Ratio Tables: Additive and Multiplicative... 69

Lesson 11: Comparing Ratios Using Ratio Tables... 78

*Lesson 12: From Ratio Tables to Double Number Line Diagrams... 86

*Lesson 13: From Ratio Tables to Equations Using the Value of the Ratio... 97

*Lesson 14: From Ratio Tables, Equations, and Double Number Line Diagrams to Plots on the Coordinate Plane... 106

Lesson 15: A Synthesis of Representations of Equivalent Ratio Collections... 114

*Combine to 2 days

Mid-Module Assessment and Rubric... 123

Topics A through B

(assessment 1 day, return/ remediation or further applications 1 day)

Pearson

7-7

12-1 RT p. 183, set E &
p.318 set A

13-1

13-5 RT sets, A, E, p.340

12-2 RT Set B, p.318

13-1

13-3

13-4 RT Sets A, C, D, p. 340

14-1

14-2

14-4

RT sets A, B, D p. 366



Weeks 22 & 23

Topic C: Unit Rates (6.RP.2, 6.RP.3b, 6.RP.3d)... 129

Lesson 16: From Ratios to Rates... 131

Lesson 17: From Rates to Ratios... 136

Lesson 18: Finding a Rate by Dividing Two Quantities... 143

Lessons 19-20: Comparison Shopping

—Unit Price and Related Measurement Conversions... 148
(1 day)

Lessons 21-22: Getting the Job Done

—Speed, Work, and Measurement Units... 165 (1 day)

Lesson 23: Problem-Solving Using Rates, Unit Rates, and
Conversions... 178

Weeks 23 & 24

Topic D: Percent (6.RP.3c)... 186

Lesson 24: Percent and Rates per 100... 187

Lesson 25: A Fraction as a Percent... 196

Lesson 26: Percent of a Quantity... 207

*Lessons 27-29: Solving Percent Problems... 214
(combine – 2 days)

End-of-Module Assessment and Rubric... 227

Topics A through D

(assessment 1 day, return/ remediation or further applications 1 day)

Pearson

12-3

12-6

RT set C, D, F, p. 318

13-2 RT set B, p. 340

13-4

Pearson

16-1 *Topic 16 can be

16-2 taught during

16-3 science

16-4

16-5

16-6 RT sets a-F, p.422

14-3

14-5

14-6

14-7

RT sets C, E, F, G, p.366



~ April ~

6.G.1,2,3,4 ~ Module 5: 23 Days includes all lessons, assessments, and remediation

Pearson: 21 Days includes all lessons, assessments, and remediation

Weeks 25 - 27

Topic A: Area of Triangles, Quadrilaterals, and Polygons (6.G.A.1)...11

Lesson 1: The Area of Parallelograms Through Rectangle Facts... 13

Lesson 2: The Area of Right Triangles... 28

Lessons 3–4: The Area of All Triangles Using Height and Base... 38

Lesson 5: The Area of Polygons Through Composition and Decomposition... 64

Lesson 6: Area in the Real World... 84

Topic B: Polygons on the Coordinate Plane (6.G.A.3)... 93

Lesson 7: Distance on the Coordinate Plane... 94

Lesson 8: Drawing Polygons in the Coordinate Plane... 105

Lesson 9: Determining Perimeter and Area of Polygons on the Coordinate Plane... 117

Lesson 10: Distance, Perimeter, and Area in the Real World... 133

Mid-Module Assessment and Rubric... 142

Topics A through B (assessment 1 day, return/remediate 1 day)

Weeks 27 - 29

Topic C: Volume of Right Rectangular Prisms (6.G.A.2)... 150

Lesson 11: Volume with Fractional Edge Lengths and Unit Cubes... 151

Lesson 12: From Unit Cubes to the Formulas for Volume... 170

Lesson 13: The Formulas for Volume... 186

Lesson 14: Volume in the Real World... 199

Topic D: Nets and Surface Area (6.G.A.2, 6.G.A.4)... 211

Lesson 15: Representing Three-Dimensional Figures Using Nets... 213

Lesson 16: Constructing Nets... 246

Lesson 17: From Nets to Surface Area... 262

Lesson 18: Determining Surface Area of Three-Dimensional Figures... 277

Lesson 19: Surface Area and Volume in the Real World... 288

Lesson 19a: Addendum Lesson for Modeling

—Applying Surface Area and Volume to Aquariums (Optional)... 301

End-of-Module Assessment and Rubric... 315

Topics C through D (assessment 1 day, return/ remediation 1 day)

***End of Pre-Assessment Curriculum – Test Prep and review – Week 30 & 31**

Math Assessment – Week 32

POST ASSESSMENT



Pearson

8-5, RT, p.199 set E

11-1

11-2

11-4

11-5

RT, p. 294 Sets B & C

17-2

17-3

17-6

RT, p. 450 Sets B & D

10-10

RT, p.259 Set I

18-1

18-2

18-3

18-4

18-5

RT, p. 472 Sets A-D



~ May ~

6.SP.1,2,3,4,5, 5.a,b,c,d

Module 6: 24 Days includes all lessons, assessments, and remediation

Pearson: 20 days includes all lessons, assessments, and remediation

Weeks 30-32

Topic A: Understanding Distributions(6.SP.A.1, 6.SP.A.2, 6.SP.B.4, 6.SP.B.5b)... 9

Lesson 1: Posing Statistical Questions... 11

Lesson 2: Displaying a Data Distribution... 19

Lesson 3: Creating a Dot Plot... 27

Lesson 4: Creating a Histogram... 35

Lesson 5: Describing a Distribution Displayed in a Histogram... 49

Topic B: Summarizing a Distribution that is Approximately Symmetric Using the Mean and Mean Absolute Deviation (6.SP.A.2, 6.SP.A.3, 6.SP.B.4, 6.SP.B.5)... 58

Lesson 6: Describing the Center of a Distribution Using the Mean... 60

Lesson 7: The Mean as a Balance Point... 70

Lesson 8: Variability in a Data Distribution... 82

Lesson 9: The Mean Absolute Deviation (MAD)... 91

Lessons 10–11: Describing Distributions Using the Mean and MAD... 102

Mid-Module Assessment and Rubric... 119 - Topics A through B (assessment 1 day)

Weeks 33-35

Topic C: Summarizing a Distribution that is Skewed Using the Median and the Interquartile Range (6.SP.A.2, 6.SP.A.3, 6.SP.B.4, 6.SP.B.5)... 135

Lesson 12: Describing the Center of a Distribution Using the Median... 137

Lesson 13: Describing Variability Using the Interquartile Range (IQR)... 148

Lesson 14: Summarizing a Distribution Using a Box Plot... 156

Lesson 15: More Practice with Box Plots... 166

Lesson 16: Understanding Box Plots... 177

Topic D: Summarizing and Describing Distributions (6.SP.B.4, 6.SP.B.5)... 187

Lesson 17: Developing a Statistical Project... 189

Lesson 18: Connecting Graphical Representations and Numerical Summaries... 195

Lesson 19: Comparing Data Distributions... 208

Lesson 20: Describing Center, Variability, and Shape of a Data Distribution from a Graphical Representation... 219

Lesson 21: Summarizing a Data Distribution by Describing Center, Variability, and Shape... 228

Lesson 22: Presenting a Summary of a Statistical Project... 237

End-of-Module Assessment and Rubric... 241

Topics A through D (assessment 1 day, remediation or further applications 1 day)

Pearson

19 – 1

RT, p.504 set A

19 – 2

RT, p.504 set B

19 – 3

19 – 7

19 – 10

RT, p.505 sets C,E,H

19 – 5

19 – 6

RT, p.505 sets D & E

19 – 8

19 – 9

19 – 4

RT, p.505 All sets

