



IXL Skill Alignment

3rd grade alignment for Investigations 3



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Unit 1

Understanding Equal Groups

Investigation 1: Things That Come in Groups

Textbook section	IXL skills
Session 1.1	1. Count equal groups 9K7
Session 1.2	1. Identify multiplication expressions for equal groups 9AE
Session 1.3	1. Write multiplication sentences for equal groups V98 2. Multiplication word problems 9TA
Session 1.4	

Investigation 2: Skip Counting and 100 Charts

Textbook section	IXL skills
Session 2.1	1. Multiply by 5 Y9E
Session 2.2	1. Skip-counting LQM 2. Skip-counting puzzles 78C
Session 2.3	1. Multiplication facts for 2, 3, 4, 5, and 10: sorting REN 2. Multiplication facts for 2, 3, 4, 5, and 10: find the missing factor ZEY 3. Multiplication facts for 6, 7, 8, and 9: sorting TZ7 4. Multiplication facts for 6, 7, 8, and 9: find the missing factor X7N 5. Multiplication tables up to 10 PNV 6. Multiplication facts up to 10: sorting SUJ 7. Multiplication facts up to 10: find the missing factor FZA 8. Multiplication word problems: find the missing factor F6C

Session 2.4

1. Add two numbers up to three digits: word problems QU2

Session 2.5

1. Subtract numbers up to three digits: word problems K88
2. Multiply by 2 94M
3. Multiply by 4 5U6
4. Multiply by 8 SMR

Session 2.6

1. Identify multiplication expressions for arrays HZL
2. Write multiplication sentences for arrays 5FZ
3. Make arrays to model multiplication PPR

Investigation 3: Arrays**Textbook section****IXL skills****Session 3.1**

1. Add two numbers up to three digits: word problems QU2

Session 3.2

1. Subtract numbers up to three digits: word problems K88
2. Addition and subtraction word problems XSH

Session 3.3

1. Create rectangles with a given area V73

Session 3.4**Session 3.5**

1. Find the area of rectangles and squares 8KJ

Session 3.6

1. Multiplication word problems 9TA
2. Multiplication tables up to 10 PNV

Session 3.7

Investigation 4: Understanding Division

Textbook section	IXL skills
Session 4.1	<ol style="list-style-type: none">1. Division facts up to 10 M8T2. Division word problems ECS3. Multiplication and division word problems 85K
Session 4.2	<ol style="list-style-type: none">1. Multiplication word problems 9TA2. Multiplication word problems: find the missing factor F6C
Session 4.3	
Session 4.4	
Session 4.5	<ol style="list-style-type: none">1. Two-step multiplication and division word problems 8FP
Session 4.6	<ol style="list-style-type: none">1. Divide by counting equal groups UYK2. Write division sentences for groups FSX3. Relate multiplication and division for groups FTU4. Write division sentences for arrays 8RW5. Relate multiplication and division for arrays XSK6. Relate multiplication and division 67L

Unit 2

Graphs and Line Plots

Investigation 1: Modeling with Data

Textbook section	IXL skills
Session 1.1	<ol style="list-style-type: none"> 1. Multiplication facts up to 10: find the missing factor FZA 2. Multiplication facts up to 10: select the missing factors WZA
Session 1.2	
Session 1.3	
Session 1.4	<ol style="list-style-type: none"> 1. Interpret bar graphs V54 2. Use bar graphs to solve problems BCJ
Session 1.5	<ol style="list-style-type: none"> 1. Interpret tally charts 8CW 2. Create bar graphs RPF 3. Interpret pictographs Y5D 4. Create pictographs AVG
Session 1.6	
Session 1.7	
Session 1.8	<ol style="list-style-type: none"> 1. Multiplication word problems 9TA 2. Division word problems ECS 3. Multiplication and division word problems 85K
Session 1.9	<ol style="list-style-type: none"> 1. Division facts up to 10: find the missing number HE7 2. Division facts up to 10: select the missing numbers FPA 3. Relate multiplication and division 67L

Investigation 2: Collecting, Representing, and Analyzing Measurement Data

Textbook section	IXL skills
Session 2.1	<ol style="list-style-type: none"> 1. Multiplication word problems 9TA 2. Division word problems ECS 3. Interpret line plots YXD 4. Create line plots H5J
Session 2.2	<ol style="list-style-type: none"> 1. Create line plots with fractions YUR 2. Measure using an inch ruler LC2
Session 2.3	
Session 2.4	<ol style="list-style-type: none"> 1. Multiplication and division word problems 85K
Session 2.5	<ol style="list-style-type: none"> 1. Read a table DE2
Session 2.6	<ol style="list-style-type: none"> 1. Multiplication facts up to 10: find the missing factor FZA 2. Multiplication facts up to 10: select the missing factors WZA 3. Division facts up to 10: find the missing number HE7 4. Division facts up to 10: select the missing numbers FPA 5. Relate multiplication and division 67L

Unit 3

Travel Stories and Collections

Investigation 1: Working with 100

Textbook section	IXL skills
Session 1.1	<ol style="list-style-type: none"> 1. Read a table DE2 2. Create pictographs AVG
Session 1.2	
Session 1.3	<ol style="list-style-type: none"> 1. Add two numbers up to three digits E83 2. Complete the addition sentence: up to three digits D69 3. Subtract numbers up to three digits EHT 4. Addition and subtraction word problems XSH 5. Two-step addition and subtraction word problems CBA
Session 1.4	
Session 1.5	<ol style="list-style-type: none"> 1. Convert to/from a number KSN 2. Place value word problems 5TF

Investigation 2: Building 1,000

Textbook section	IXL skills
Session 2.1	<ol style="list-style-type: none"> 1. Add two numbers up to three digits E83
Session 2.2	<ol style="list-style-type: none"> 1. Multiplication word problems 9TA 2. Division word problems ECS 3. Multiplication and division word problems 85K 4. Two-step multiplication and division word problems 8FP
Session 2.3	
Session 2.4	<ol style="list-style-type: none"> 1. Rounding - nearest ten or hundred only Q65

Investigation 3: Addition

Textbook section	IXL skills
Session 3.1	
Session 3.2	<ol style="list-style-type: none"> 1. Add two numbers up to three digits: word problems QU2 2. Add two numbers up to three digits E83 3. Estimate sums: word problems WB2
Session 3.3	<ol style="list-style-type: none"> 1. Convert from expanded form 8MP 2. Convert between standard and expanded form 2GS 3. Rounding - nearest ten or hundred only Q65
Session 3.4	<ol style="list-style-type: none"> 1. Read a table DE2
Session 3.5	

Investigation 4: Finding the Difference

Textbook section	IXL skills
Session 4.1	<ol style="list-style-type: none"> 1. Find two numbers based on sum and difference 9Z7
Session 4.2	<ol style="list-style-type: none"> 1. Place value word problems 5TF 2. Subtract numbers up to three digits: word problems K88
Session 4.3	<ol style="list-style-type: none"> 1. Add two numbers up to three digits: word problems QU2
Session 4.4	<ol style="list-style-type: none"> 1. Addition and subtraction word problems XSH
Session 4.5	

Investigation 5: Subtraction Stories

Textbook section	IXL skills
Session 5.1	<ol style="list-style-type: none">1. Multiplication word problems 9TA2. Division word problems ECS3. Add and subtract data from tables HX2
Session 5.2	<ol style="list-style-type: none">1. Comparing: with addition and subtraction 5ZU2. Subtract numbers up to three digits: word problems K88
Session 5.3	<ol style="list-style-type: none">1. Add two numbers up to three digits: word problems QU22. Correct amount of change 8KD3. Price lists 3Z6
Session 5.4	<ol style="list-style-type: none">1. Order numbers X922. Two-step addition and subtraction word problems CBA
Session 5.5	<ol style="list-style-type: none">1. Add two numbers up to three digits E832. Addition input/output tables: up to three digits MUE3. Subtract numbers up to three digits EHT4. Subtraction input/output tables: up to three digits J9S
Session 5.6	<ol style="list-style-type: none">1. Addition and subtraction word problems XSH

Unit 4

Perimeter, Area, and Polygons

Investigation 1: Linear Measurement

Textbook section	IXL skills
Session 1.1	<ol style="list-style-type: none"> 1. Place value word problems 5TF 2. Measure using an inch ruler LC2 3. Which customary unit of length is appropriate? WRB 4. Which metric unit of length is appropriate? YWR
Session 1.2	<ol style="list-style-type: none"> 1. Perimeter of rectangles ZJT
Session 1.3	<ol style="list-style-type: none"> 1. Perimeter of polygons LLY 2. Perimeter: find the missing side length T2V 3. Perimeter: word problems CLD
Session 1.4	
Session 1.5	<ol style="list-style-type: none"> 1. Perimeter of rectilinear shapes 65Z

Investigation 2: Understanding and Finding Area

Textbook section	IXL skills
Session 2.1	<ol style="list-style-type: none"> 1. Complete the addition sentence: up to three digits D69
Session 2.2	<ol style="list-style-type: none"> 1. Add two numbers up to three digits E83
Session 2.3	<ol style="list-style-type: none"> 1. Multiplication word problems 9TA 2. Find the area of figures made of unit squares FLQ 3. Select figures with a given area XR6
Session 2.4	<ol style="list-style-type: none"> 1. Find the area of rectangles and squares 8KJ 2. Relationship between area and perimeter: find the perimeter ZWF

- Relationship between area and perimeter: find the area KNR

Session 2.5

- Add two numbers up to three digits: word problems QU2
- Add three numbers up to three digits each GSY
- Add three numbers up to three digits each: word problems NPU
- Subtract numbers up to three digits: word problems K88
- Find the area of rectangles with missing unit squares KTN
- Find the area of complex figures SGP

Session 2.6

- Create figures with a given area Z2H

Session 2.7

- Multiplication tables up to 10 PNV

Investigation 3: Triangles and Quadrilaterals**Textbook section****IXL skills****Session 3.1**

- Add two numbers up to three digits: word problems QU2

Session 3.2

- Count and compare sides and vertices GWA
- Open and closed shapes 9PS

Session 3.3

- Subtract numbers up to three digits: word problems K88

Session 3.4

- Parallel sides in quadrilaterals 6E9
- Identify parallelograms V6L
- Identify trapezoids 67A
- Identify rectangles 47T
- Identify rhombuses ZSD
- Classify quadrilaterals CNJ

Session 3.5

Unit 5

Cube Patterns, Arrays, and Multiples of 10

Investigation 1: Relationship between Multiplication and Division

Textbook section	IXL skills
Session 1.1	
Session 1.2	<ol style="list-style-type: none"> 1. Repeating patterns 6YZ 2. Find the next shape in a pattern 74N 3. Complete a repeating pattern FGN 4. Make a repeating pattern PLU
Session 1.3	<ol style="list-style-type: none"> 1. Add two numbers up to three digits: word problems QU2 2. Addition up to three digits: fill in the missing digits LYB 3. Subtract numbers up to three digits: word problems K88
Session 1.4	<ol style="list-style-type: none"> 1. Skip-counting LQM 2. Skip-counting puzzles 78C 3. Multiplication word problems 9TA 4. Relate multiplication and division 67L
Session 1.5	

Investigation 2: Solving Multiplication and Division Problems

Textbook section	IXL skills
Session 2.1	<ol style="list-style-type: none"> 1. Convert from expanded form 8MP 2. Convert between standard and expanded form 2GS 3. Rounding - nearest ten or hundred only Q65
Session 2.2	<ol style="list-style-type: none"> 1. Multiplication tables up to 10 PNV 2. Multiplication facts up to 10: true or false? 3K8 3. Multiplication facts up to 10: sorting SUJ

- Multiplication facts up to 10: select the missing factors WZA
- Multiplication sentences up to 10: true or false? MTU

Session 2.3

- Multiplication word problems 9TA

Session 2.4

- Multiplication facts up to 10: find the missing factor FZA

Session 2.5

- Add two numbers up to three digits: word problems QU2
- Subtract numbers up to three digits: word problems K88
- Multiplication and division word problems 85K
- Two-step addition and subtraction word problems CBA

Session 2.6

- Division word problems ECS

Investigation 3: Multiplying by Multiples of 10**Textbook section****IXL skills****Session 3.1**

- Multiply by a multiple of ten MS6
- Multiplication word problems 9TA
- Multiplication tables up to 10 PNV

Session 3.2

- Find the area of rectangles and squares 8KJ

Session 3.3**Session 3.4**

- Division word problems ECS

Session 3.5

- Two-step multiplication and division word problems 8FP

Session 3.6

- Write variable equations to represent word problems: multiplication and division only ZNN
- Division facts up to 10: select the missing numbers FPA
- Division facts up to 10: find the missing number HE7

Unit 6

Fair Shares and Fractions on Number Lines

Investigation 1: Sharing Brownies

Textbook section	IXL skills
Session 1.1	<ol style="list-style-type: none"> 1. Multiply by a multiple of ten MS6 2. Identify equal parts FHY
Session 1.2	<ol style="list-style-type: none"> 1. Multiplication word problems 9TA 2. Understand fractions: fraction bars 6JL 3. Understand fractions: area models RTW 4. Show fractions: fraction bars ZPW 5. Show fractions: area models NLE
Session 1.3	
Session 1.4	
Session 1.5	<ol style="list-style-type: none"> 1. Fractions of number lines: unit fractions TBX 2. Fractions of number lines: halves, fourths, and eighths LUA 3. Fractions of number lines J8M 4. Identify unit fractions on number lines JVC 5. Identify fractions on number lines AWH 6. Graph unit fractions on number lines CBW 7. Graph fractions on number lines 7QM
Session 1.6	<ol style="list-style-type: none"> 1. Create line plots H5J 2. Create line plots with fractions YUR
Session 1.7	<ol style="list-style-type: none"> 1. Division word problems ECS 2. Find equivalent fractions using area models: two models ZJ2 3. Find equivalent fractions using area models: one model 6DY 4. Identify equivalent fractions on number lines HYM

5. Find equivalent fractions using number lines JL8
6. Graph equivalent fractions on number lines WPQ
7. Identify equivalent fractions 7DA
8. Find equivalent fractions WMX

Session 1.8

1. Match fractions to models: halves, thirds, and fourths Y55
 2. Match unit fractions to models CPK
 3. Match fractions to models YHL
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Investigation 2: Many Ways to Make a Share

Textbook section	IXL skills
Session 2.1	<ol style="list-style-type: none"> 1. Multiplication and division word problems 85K 2. Order fractions with like denominators HYZ 3. Order fractions with like numerators PCW 4. Order fractions GBA
Session 2.2	<ol style="list-style-type: none"> 1. Compare fractions using number lines 38T 2. Graph and compare fractions with like denominators on number lines 63U 3. Graph and compare fractions with like numerators on number lines ZPD 4. Graph and compare fractions on number lines 6H5 5. Compare fractions 78D 6. Graph smaller or larger fractions on a number line 2PH
Session 2.3	<ol style="list-style-type: none"> 1. Multiplication word problems 9TA 2. Division word problems ECS 3. Compare fractions using models MJ2 4. Compare fractions in recipes 9BK
Session 2.4	<ol style="list-style-type: none"> 1. Division facts up to 10 M8T 2. Multiplication tables up to 10 PNV
Session 2.5	<ol style="list-style-type: none"> 1. Skip-counting puzzles 78C

Unit 7

How Many Miles?

Investigation 1: Numbers in the Hundreds

Textbook section	IXL skills
Session 1.1	1. Which metric unit of volume is appropriate? LYS
Session 1.2	1. Multiplication word problems 9TA 2. Which metric unit of weight is appropriate? PTF
Session 1.3	1. Two-step mixed operation word problems SRL 2. Match fractions to models YHL 3. Match mixed numbers to models UWH
Session 1.4	1. Graph and compare fractions on number lines 6H5 2. Compare fractions 78D
Session 1.5	1. Add two numbers up to three digits: word problems QU2 2. Subtract numbers up to three digits: word problems K88
Session 1.6	1. Subtract numbers up to three digits EHT 2. Estimate sums up to 1,000 3Y9 3. Estimate differences up to 1,000 A47
Session 1.7	1. Measurement word problems VPW

Investigation 2: Addition Strategies

Textbook section	IXL skills
Session 2.1	
Session 2.2	1. Add two numbers up to three digits E83 2. Subtract numbers up to three digits EHT

Session 2.3

1. Add two numbers up to three digits: word problems QU2

Session 2.4

1. Add three numbers up to three digits each GSY
2. Add three numbers up to three digits each: word problems NPU
3. Estimate sums up to 1,000 3Y9
4. Estimate sums: word problems WB2
5. Compare fractions 78D
6. Fractions of number lines: halves, fourths, and eighths LUA
7. Graph fractions on number lines 7QM

Session 2.5**Investigation 3: Subtraction****Textbook section****IXL skills****Session 3.1**

1. Subtract numbers up to three digits: word problems K88

Session 3.2

1. Add two numbers up to three digits E83
2. Add two numbers up to three digits: word problems QU2

Session 3.3

1. Making change TF7
2. Add and subtract money amounts AKZ
3. Add money amounts - word problems BK6
4. Price lists 3Z6

Session 3.4

1. Subtract numbers up to three digits EHT

Session 3.5

1. Add three numbers up to three digits each: word problems NPU
2. Estimate sums: word problems WB2

Session 3.6

1. Correct amount of change 8KD

Unit 8

Larger Numbers and Multi-Step Problems

Investigation 1: Solving Division Problems

Textbook section	IXL skills
Session 1.1	<ol style="list-style-type: none"> 1. Add two numbers up to three digits E83 2. Multiplication word problems 9TA 3. Division word problems ECS
Session 1.2	<ol style="list-style-type: none"> 1. Division facts up to 10 M8T
Session 1.3	<ol style="list-style-type: none"> 1. Division facts up to 10: true or false? MPV 2. Division facts up to 10: sorting CYJ 3. Division facts up to 10: find the missing number HE7 4. Division facts up to 10: select the missing numbers FPA 5. Division sentences up to 10: true or false? GMU
Session 1.4	
Session 1.5	
Session 1.6	

Investigation 2: Solving Multiplication and Division Problems

Textbook section	IXL skills
Session 2.1	<ol style="list-style-type: none"> 1. Multiplication tables up to 10 PNV 2. Multiplication word problems 9TA 3. Multiply one-digit numbers by two-digit numbers 9PM 4. Multiply one-digit numbers by two-digit numbers: word problems X5D 5. Division facts up to 10 M8T

Session 2.2

1. Add two numbers up to three digits: word problems QU2
2. Subtract numbers up to three digits: word problems K88
3. Identify multiplication expressions for arrays HZL
4. Write multiplication sentences for arrays 5FZ
5. Make arrays to model multiplication PPR

Session 2.3

1. Division word problems ECS
2. Divide three-digit numbers SMS
3. Divide three-digit numbers: word problems 2AT
4. Add and subtract money amounts AKZ

Session 2.4

1. Addition, subtraction, multiplication, and division word problems X8W
2. Two-step mixed operation word problems SRL

Session 2.5

1. Two-step addition and subtraction word problems CBA
2. Two-step multiplication and division word problems 8FP
3. Two-step word problems: identify reasonable answers V5A

Investigation 3: Solving Multi-Step Problems**Textbook section****IXL skills****Session 3.1**

1. Add two numbers up to three digits E83
2. Two-step multiplication and division word problems 8FP

Session 3.2

1. Multiplication input/output tables: find the rule D5U
2. Interpret tally charts 8CW
3. Interpret bar graphs V54
4. Use bar graphs to solve problems BCJ

Session 3.3

1. Multiplication input/output tables 8CM

Session 3.4

1. Two-step mixed operation word problems SRL
2. Identify equations DW9
3. Solve for the variable: addition and subtraction only BQT
4. Solve for the variable: multiplication and division only AL9
5. Solve for the variable D65
6. Write variable equations to represent word problems: multiplication and division only ZNN
7. Write variable equations to represent word problems U6P
8. Compare fractions in recipes 9BK

Session 3.5

1. Division word problems ECS
2. Multiplication word problems 9TA