



IXL Skill Alignment

2nd grade alignment for enVisionMATH 2.0 Common Core Edition



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Topic 1

Fluently Add and Subtract Within 20

| Textbook section | IXL skills |
|--|--|
| Lesson 1-1: Addition Fact Strategies | <ol style="list-style-type: none"> 1. Add one-digit numbers - sums to 10 M55 2. Match addition sentences and models - sums to 10 A2L 3. Related addition facts YDX <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Write addition sentences to describe pictures - sums to 10 T2B • Addition sentences: which is true? GMN |
| Lesson 1-2: Doubles and Near Doubles | <ol style="list-style-type: none"> 1. Add doubles 8Z7 2. Add doubles - complete the sentence S46 3. Add using doubles plus or minus one A8U <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Add doubles using models S57 |
| Lesson 1-3: Make a 10 to Add | <ol style="list-style-type: none"> 1. Make ten to add YJE 2. Add one-digit numbers 5C6 |
| Lesson 1-4: Addition Fact Patterns | <ol style="list-style-type: none"> 1. Ways to make a number - addition sentences up to 10 BZS 2. Ways to make a number with addition - sums to 20 9NA 3. Complete the addition sentence - sums to 20 MQX |
| Lesson 1-5: Count On and Count Back to Subtract | <ul style="list-style-type: none"> • <i>Coming soon:</i> Count on to subtract <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Addition sentences using number lines - sums up to 20 FXF • Subtraction sentences using number lines - up to 20 GUZ |

Lesson 1-6: Think Addition to Subtract

1. Relate addition and subtraction sentences PRS
2. Complete the subtraction sentence - up to 18 QS5

Also consider

- Related subtraction facts P6Y
- Fact families NSN
- Subtraction sentences: which is true? UY2

Lesson 1-7: Make a 10 to Subtract

1. Subtract a one-digit number from a two-digit number up to 18 HSU

Lesson 1-8: Practice Addition and Subtraction Facts

1. Add and subtract numbers up to 20 QQP
2. Addition and subtraction - ways to make a number - up to 20 PD7

Lesson 1-9: Solve Addition and Subtraction Word Problems

1. Addition and subtraction word problems - up to 20 75R
2. Addition and subtraction sentences up to 20: which is true? KP6

Also consider

- Addition and subtraction sentences using number lines: up to 20 7TD

Lesson 1-10: Construct Arguments

1. Write addition sentences to describe pictures - sums to 20 L2M
2. Write subtraction sentences to describe pictures - up to 18 F8W

Topic 2

Work with Equal Groups

| Textbook section | IXL skills |
|--|--|
| Lesson 2-1: Even and Odd Numbers | <ol style="list-style-type: none">1. Even or odd 54Z <p><i>Also consider</i></p> <ul style="list-style-type: none">• Even or odd numbers on number lines S8E |
| Lesson 2-2: Continue Even and Odd Numbers | <ol style="list-style-type: none">1. Identify numbers as even or odd RGJ2. Select even or odd numbers JLX <p><i>Also consider</i></p> <ul style="list-style-type: none">• Which even or odd number comes before or after? CJK |
| Lesson 2-3: Use Arrays to Find Totals | <ol style="list-style-type: none">1. Identify repeated addition in arrays: sums to 10 F7E2. Write addition sentences for arrays: sums to 10 Z7N |
| Lesson 2-4: Make Arrays to Find Totals | <ol style="list-style-type: none">1. Identify repeated addition in arrays: sums to 25 EUS |
| Lesson 2-5: Model with Math | <ol style="list-style-type: none">1. Write addition sentences for arrays: sums to 25 W8T |

Topic 3

Add Within 100 Using Strategies

| Textbook section | IXL skills |
|---|--|
| Lesson 3-1: Add Tens and Ones on a Hundreds Chart | 1. One more or ten more L2P |
| Lesson 3-2: Add Tens on an Open Number Line | 1. Add multiples of 10 NPQ |
| Lesson 3-3: Add Tens and Ones on an Open Number Line | |
| Lesson 3-4: Break Apart Numbers to Add | |
| Lesson 3-5: Continue to Break Apart Numbers to Add | |
| Lesson 3-6: Add Using Compensation | 1. Use compensation to add - up to two digits SCF |
| Lesson 3-7: Practice Adding Using Strategies | 1. Ways to make a number using addition S5E <i>Also consider</i> • Addition input/output tables - up to two digits 5NL |
| Lesson 3-8: Solve One-Step and Two-Step Problems | 1. Addition word problems - up to two digits XAT |
| Lesson 3-9: Use Appropriate Tools | 1. Write the addition sentence - up to two digits 5FM <i>Also consider</i> • Write addition sentences to describe pictures XJ5 |

Topic 4

Fluently Add Within 100

| Textbook section | IXL skills |
|---|---|
| Lesson 4-1: Add with Partial Sums | <ol style="list-style-type: none"> 1. Use models to add a two-digit and a one-digit number - without regrouping QC9 2. Add a two-digit and a one-digit number - without regrouping EZ7 |
| Lesson 4-2: Continue to Add with Partial Sums | <ol style="list-style-type: none"> 1. Use models to add two-digit numbers - without regrouping GK2 2. Add two-digit numbers without regrouping - sums to 100 TX5 |
| Lesson 4-3: Models to Add 2-Digit Numbers | <ol style="list-style-type: none"> 1. Use models to add a two-digit and a one-digit number - with regrouping URQ 2. Use models to add two-digit numbers - with regrouping QL8 |
| Lesson 4-4: Add 2-Digit Numbers | <ol style="list-style-type: none"> 1. Add a two-digit and a one-digit number - with regrouping 8BT 2. Add two-digit numbers with regrouping - sums to 100 GLX <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Complete the addition sentence: sums to 100 GSZ |
| Lesson 4-5: Add More Than Two 2-Digit Numbers | <ol style="list-style-type: none"> 1. Add three numbers up to two digits each YTH |
| Lesson 4-6: Practice Adding | <ol style="list-style-type: none"> 1. Add four numbers up to two digits each DP6 |
| Lesson 4-7: Solve One-Step and Two-Step Problems | <ol style="list-style-type: none"> 1. Add three numbers up to two digits each: word problems 52T 2. Add four numbers up to two digits each: word problems YSX |
| Lesson 4-8: Model With Math | |

Topic 5

Subtract Within 100 Using Strategies

| Textbook section | IXL skills |
|--|---|
| Lesson 5-1: Subtract Tens and Ones on a Hundred Chart | 1. One less or ten less LQQ |
| Lesson 5-2: Count Back to Subtract Using an Open Number Line | 1. Subtract multiples of 10 2Q6 |
| Lesson 5-3: Continue to Count Back to Subtract on an Open Number Line | |
| Lesson 5-4: Add Up to Subtract Using an Open Number Line | 1. Relate addition and subtraction sentences - up to two digits 7NX <i>Also consider</i> • Ways to make a number using subtraction DTN |
| Lesson 5-5: Break Apart Numbers to Subtract | |
| Lesson 5-6: Continue to Break Apart Numbers to Subtract | |
| Lesson 5-7: Subtract Using Compensation | |
| Lesson 5-8: Solve One-Step and Two-Step Problems | 1. Subtraction word problems - up to two digits UFU |
| Lesson 5-9: Critique Reasoning | 1. Write the subtraction sentence - up to two digits ZQH <i>Also consider</i> • Write subtraction sentences to describe pictures - up to two digits UBF |

Topic 6

Fluently Subtract Within 100

| Textbook section | IXL skills |
|---|---|
| Lesson 6-1: Regroup 1 Ten for 10 Ones | 1. Regroup tens and ones 5LV |
| Lesson 6-2: Models to Subtract 2-Digit and 1-Digit Numbers | |
| Lesson 6-3: Subtract 2-Digit and 1-Digit Numbers | 1. Subtract a one-digit number from a two-digit number - without regrouping L8D 2. Subtract a one-digit number from a two-digit number - with regrouping P85 |
| Lesson 6-4: Models to Subtract 2-Digit Numbers | |
| Lesson 6-5: Subtract 2-Digit Numbers | 1. Subtract two two-digit numbers - without regrouping R8C 2. Subtract two two-digit numbers - with regrouping TWE |
| Lesson 6-6: Use Addition to Check Subtraction | 1. Complete the subtraction sentence - up to two digits YWC |
| Lesson 6-7: Practice Subtracting | 1. Subtract two-digit numbers DZH |
| Lesson 6-8: Solve One-Step and Two-Step Problems | 1. Subtraction word problems - two two-digit numbers 4K5 |
| Lesson 6-9: Reasoning | |

Topic 7

More Solving Problems Involving Addition and Subtraction

| Textbook section | IXL skills |
|---|--|
| Lesson 7-1: Represent Addition and Subtraction Problems | <ol style="list-style-type: none"> 1. Add and subtract numbers up to 100 JDT 2. Addition and subtraction - ways to make a number - up to 100 8WA |
| Lesson 7-2: Mixed Practice: Solve Addition and Subtraction Problems | |
| Lesson 7-3: Continue Practice with Addition and Subtraction Problems | |
| Lesson 7-4: Solve Two-Step Problems | <ol style="list-style-type: none"> 1. Addition and subtraction word problems - up to 100 MEP |
| Lesson 7-5: Continue to Solve Two-Step Problems | <ol style="list-style-type: none"> 1. Two-step addition and subtraction word problems - up to 100 7P8 |
| Lesson 7-6: Reasoning | <ol style="list-style-type: none"> 1. Write the addition or subtraction sentence - up to two digits JHU <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Addition and subtraction - balance equations - up to 100 KSG • Which sign (+ or -) makes the number sentence true? K7X |

Topic 8

Work with Time and Money

| Textbook section | IXL skills |
|---|---|
| Lesson 8-1: Solve Problems with Coins | <ol style="list-style-type: none"> Names and values of common coins 2QM Count money - up to \$1 DGK |
| Lesson 8-2: Continue to Solve Problems with Coins | <ol style="list-style-type: none"> Add and subtract money - up to \$1 LYC Add and subtract money - up to \$1: word problems N5Y Exchanging money 29V <p><i>Also consider</i></p> <ul style="list-style-type: none"> Correct amount of change LQ7 Making change LYP |
| Lesson 8-3: Solve Problems with Dollar Bills | <ol style="list-style-type: none"> Count money - up to \$100: bills only YPH |
| Lesson 8-4: Continue to Solve Problems with Dollar Bills | <ol style="list-style-type: none"> Add and subtract money - up to \$100 4N2 Add and subtract money - up to \$100: word problems 9AQ |
| Lesson 8-5: Reasoning | <ol style="list-style-type: none"> Equivalent amounts of money - up to \$1 MGA Purchases - do you have enough money - up to \$1 F62 |
| Lesson 8-6: Tell and Write Time to Five Minutes | <ol style="list-style-type: none"> Match analog and digital clocks HKL Read clocks and write times K7F <p><i>Also consider</i></p> <ul style="list-style-type: none"> Match digital clocks and times 36N Match analog clocks and times D9K |
| Lesson 8-7: Tell Time Before and After the Hour | <ol style="list-style-type: none"> Time words: o'clock, half, quarter 5TA <p><i>Also consider</i></p> <ul style="list-style-type: none"> Elapsed time I UDE Elapsed time II L9C |



Lesson 8-8: A.M. and P.M.

1. A.M. or P.M. EJV

Topic 9

Numbers to 1,000

| Textbook section | IXL skills |
|---|---|
| Lesson 9-1: Understand Hundreds | 1. Convert between place values - ones, tens, and hundreds M6X <i>Also consider</i> <ul style="list-style-type: none"> Count by tens and hundreds Z8G |
| Lesson 9-2: Models and 3-Digit Numbers | 1. Place value models - up to hundreds PBX 2. Identify a digit up to the hundreds place 45U |
| Lesson 9-3: Name Place Values | 1. Place value - up to hundreds BDF 2. Convert to/from a number - up to hundreds HUX |
| Lesson 9-4: Read and Write 3-Digit Numbers | 1. Convert from expanded form - up to hundreds LG5 2. Writing numbers up to 1,000 in words - convert words to digits JKD 3. Writing numbers up to 1,000 in words - convert digits to words VPQ |
| Lesson 9-5: Different Ways to Name the Same Number | |
| Lesson 9-6: Place-Value Patterns with Numbers | 1. Count forward - up to 1,000 88P 2. Count forward by tens - up to 1,000 B86 |
| Lesson 9-7: Skip Count by 5s, 10s, and 100s to 1,000 | 1. Number lines - up to 1,000 KFQ 2. Count forward and backward by fives, tens, and hundreds R5A <i>Also consider</i> <ul style="list-style-type: none"> Skip-counting by fives and tens FVF |
| Lesson 9-8: Compare Numbers Using Place Value | 1. Comparing numbers up to 1,000 XF9 |
| Lesson 9-9: Compare Numbers on the Number Line | 1. Put numbers up to 1,000 in order 3N2 |



Lesson 9-10: Look For and Use Structure

1. Skip-counting sequences: fives, tens, and hundreds problems U8A
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Topic 10

Add Within 1,000 Using Models and Strategies

| Textbook section | IXL skills |
|---|---|
| Lesson 10-1: Add 10 and 100 | 1. Add with a multiple of 10 or 100 LJ8 |
| Lesson 10-2: Add on an Open Number Line | |
| Lesson 10-3: Add Using Mental Math | 1. Add three-digit numbers - without regrouping Y2U |
| Lesson 10-4: Add Using Partial Sums | 1. Add three-digit numbers - with regrouping 7G7 |
| Lesson 10-5: Use Models to Add | 1. Use models to add three-digit numbers - without regrouping Q7V 2. Use models to add three-digit numbers - with regrouping KUG |
| Lesson 10-6: Explain Addition Strategies | 1. Addition word problems - up to three digits UV2 2. Complete the addition sentence - up to three digits R5W |
| Lesson 10-7: Repeated Reasoning | 1. Write the addition sentence - up to three digits PQT 2. Balance addition equations - up to three digits 5U9 |

Topic 11

Subtract Within 1,000 Using Models and Strategies

| Textbook section | IXL skills |
|---|---|
| Lesson 11-1: Subtract 10 and 100 | 1. Subtract a multiple of 10 or 100 S2A |
| Lesson 11-2: Count Back to Subtract on an Open Number Line | |
| Lesson 11-3: Add Up to Subtract on an Open Number Line | 1. Relate addition and subtraction sentences - up to three digits BBH |
| Lesson 11-4: Subtract Using Mental Math | 1. Subtract three-digit numbers - without regrouping EFL 2. Subtract three-digit numbers - with regrouping E8A |
| Lesson 11-5: Use Models to Subtract | |
| Lesson 11-6: Explain Subtraction Strategies | 1. Subtraction word problems - up to three digits ZMA 2. Complete the subtraction sentence - up to three digits MDY |
| Lesson 11-7: Persevere | 1. Write the subtraction sentence - up to three digits 5B3 2. Balance subtraction equations - up to three digits LSU |

Topic 12

Measuring Length

| Textbook section | IXL skills |
|--|---|
| Lesson 12-1: Estimating Length | 1. Measure length with objects G92 |
| Lesson 12-2: Measure with Inches | 1. Measure using an inch ruler 88A |
| Lesson 12-3: Inches, Feet, and Yards | 1. Which customary unit of length is appropriate: inches, feet, or yards? GKJ |
| Lesson 12-4: Measure Length Using Different Customary Units | |
| Lesson 12-5: Measure with Centimeters | 1. Measure using a centimeter ruler 7WA |
| Lesson 12-6: Centimeters and Meters | 1. Which metric unit of length is appropriate? SKH |
| Lesson 12-7: Measure Length Using Different Metric Units | |
| Lesson 12-8: Compare Lengths | |
| Lesson 12-9: Precision | |

Topic 13

More Addition, Subtraction, and Length

| Textbook section | IXL skills |
|---|--|
| Lesson 13-1: Add and Subtract with Measurements | 1. Customary units of length: word problems I BPC <i>Also consider</i> <ul style="list-style-type: none">Perimeter of rectangles NEYPerimeter NP9Perimeter: word problems EL7 |
| Lesson 13-2: Find Unknown Measurements | 1. Customary units of length: word problems II 28R |
| Lesson 13-3: Continue to Find Unknown Measurements | 1. Metric units of length: word problems KJ5 |
| Lesson 13-4: Add and Subtract on a Number Line | |
| Lesson 13-5: Use Appropriate Tools | |

Topic 14

Graphs and Data

| Textbook section | IXL skills |
|--|---|
| Lesson 14-1: Line Plots | 1. Interpret line plots HY6 |
| Lesson 14-2: More Line Plots | 1. Create line plots F2U |
| Lesson 14-3: Bar Graphs | 1. Convert between bar graphs and tables 6WP 2. Create bar graphs II RGN |
| Lesson 14-4: Picture Graphs | 1. Create pictographs I NM5 |
| Lesson 14-5: Draw Conclusions from Graphs | 1. Interpret bar graphs I RPD 2. Interpret pictographs I QDT |
| Lesson 14-6: Reasoning | 1. Interpret bar graphs II 8CH 2. Which bar graph is correct? BMG |

Topic 15

Shapes and Their Attributes

| Textbook section | IXL skills |
|--|---|
| Lesson 15-1: 2-Dimensional Shapes | <ol style="list-style-type: none"> 1. Name the two-dimensional shape 2FK 2. Count sides and vertices EAQ |
| Lesson 15-2: Polygons and Angles | <ol style="list-style-type: none"> 1. Select two-dimensional shapes DWL 2. Compare sides and vertices G9N <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Square corners 27M |
| Lesson 15-3: Draw 2-Dimensional Shapes | <ul style="list-style-type: none"> • <i>Coming soon:</i> Draw polygons <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Equal sides D6K |
| Lesson 15-4: Cubes | <ol style="list-style-type: none"> 1. Cubes K6N <p><i>Also consider</i></p> <ul style="list-style-type: none"> • Name the three-dimensional shape 9E9 • Count vertices, edges, and faces X72 • Identify faces of three-dimensional shapes QSR |
| Lesson 15-5: Equal Shares | <ol style="list-style-type: none"> 1. Tile a rectangle with squares 2VD 2. Count the number of squares in a rectangle TMY |
| Lesson 15-6: Partition Shapes | <ol style="list-style-type: none"> 1. Identify halves, thirds, and fourths 24W 2. Make halves, thirds, and fourths QD2 |
| Lesson 15-7: Equal Shares, Different Shapes | <ol style="list-style-type: none"> 1. Make halves, thirds, and fourths in different ways 6SG |
| Lesson 15-8: Repeated Reasoning | <ol style="list-style-type: none"> 1. Fractions of a whole: modeling word problems JSE |

Topic 16

Step Up to Grade 3

| Textbook section | IXL skills |
|--|---|
| Lesson 16-1: Multiplication as Repeated Addition | <ol style="list-style-type: none"> Count equal groups LHS Relate addition and multiplication for equal groups NFF |
| Lesson 16-2: Arrays and Multiplication | <ol style="list-style-type: none"> Write multiplication sentences for arrays LN5 Multiplication word problems WMZ |
| Lesson 16-3: Division as Sharing | <ol style="list-style-type: none"> Divide by counting equal groups MTV Write division sentences for groups VGQ |
| Lesson 16-4: Division as Repeated Subtraction | <ol style="list-style-type: none"> Division word problems 2CW <ul style="list-style-type: none"> <i>Coming soon:</i> Divide using repeated subtraction |
| Lesson 16-5: Add with Partial Sums | <ol style="list-style-type: none"> Addition with three-digit numbers ETW |
| Lesson 16-6: Models for Adding 3-Digit Numbers | <ol style="list-style-type: none"> Use models to add three-digit numbers - regroup tens or ones 52B Use models to add three digit numbers - regroup tens and ones 8R8 |
| Lesson 16-7: Subtract with Partial Sums | <ol style="list-style-type: none"> Subtract three-digit numbers ZVR |
| Lesson 16-8: Models for Subtracting 3-Digit Numbers | |
| Lesson 16-9: Divide Regions into Equal Parts | <ol style="list-style-type: none"> Equal parts H5R Identify the unit fraction 8HR |
| Lesson 16-10: Fractions and Regions | <ol style="list-style-type: none"> Identify the fraction HVG Which shape illustrates the fraction? PTH |