IXL Skill Alignment

6th grade alignment for enVision Mathematics Florida B.E.S.T.

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Topic 1

Use Positive Rational Numbers

Textbook section	IXL skills
Lesson 1-1: Fluently add, subtract, and multiply decimals	1. Add and subtract decimals 4F6 2. Multiply with decimals 6T4 3. Add, subtract, and multiply decimals: word problems Z77 *Also consider* • Multiply decimals using grids NY9 • Multiply two decimals: where does the decimal point go? 5K4 • Estimate sums and differences of decimals SJ6
Lesson 1-2: Fluently divide whole numbers and decimals	1. Divide whole numbers - decimal quotients 8WR 2. Divide decimals EN5 *Also consider* • Multiply and divide decimals: word problems GZN
Lesson 1-3: Multiply fractions	1. Multiply two fractions BNT 2. Multiply mixed numbers Z9M 3. Multiply fractions and mixed numbers: word problems RS6 *Also consider* • Multiply two fractions using models B7P • Estimate products of mixed numbers 5BG • Multiply with mixed numbers using area models LGS
Lesson 1-4: Understand division with fractions	1. Divide whole numbers and fractions using models MF8 2. Divide fractions and whole numbers 9GY *Also consider* • Reciprocals R9V

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Lesson 1-5: Divide fractions by fractions

1. Divide fractions using models CHB
2. Divide fractions and mixed numbers using models: word problems YRT
3. Divide fractions DS2
4. Divide fractions: word problems CLN

Lesson 1-6: Divide mixed numbers

1. Divide fractions and mixed numbers N2B
2. Divide fractions and mixed numbers: word problems WAH

Also consider

- Estimate quotients with mixed numbers 82P

Lesson 1-7: Solve problems with rational numbers

1. Multi-step word problems with rational numbers RFM
2. Multiply money amounts: multi-step word problems 99Z

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Topic 2

Understand integer and rational numbers

Textbook section	IXL skills
Lesson 2-1: Understand integers	1. Graph integers on horizontal and vertical number lines 36C 2. Understanding opposite integers X8L 3. Compare and order integers 7ZF *Also consider* • Understanding integers 8EP
Lesson 2-2: Represent rational numbers on the number line	1. Rational numbers on number lines DJE 2. Compare and order rational numbers MFM 3. Compare and order rational numbers: word problems ETK *Also consider* • Compare and order rational numbers using number lines FMS • Classify rational numbers using a diagram 64K
Lesson 2-3: Absolute values of rational numbers	1. Understanding absolute value TLR 2. Absolute value RSL 3. Absolute value and integers: word problems 9CW *Also consider* • Inequalities with absolute values W9Z
Lesson 2-4: Add integers	1. Add integers using counters 4J9 2. Add integers using number lines L95 3. Add integers ZM6 *Also consider* • Integer addition rules ESW • Add three or more integers F2N

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Lesson 2-5: Subtract integers

1. Subtract integers using counters NYM
2. Subtract integers using number lines EW2
3. Subtract integers WQ6
4. Add and subtract integers: word problems MP9

Also consider

- Integer subtraction rules E79

Lesson 2-6: Multiply integers

1. Understand multiplying by a negative integer using a number line EPM
2. Multiply integers: find the sign DKA
3. Multiply integers J6V

Lesson 2-7: Divide integers

1. Divide integers: find the sign Q6T
2. Divide integers JZC

Also consider

- Order of operations H2P

Lesson 2-8: Solve problems with absolute value

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Topic 3

Use numeric and algebraic expressions

Textbook section	IXL skills
Lesson 3-1: Understand, represent, and evaluate exponents	1. Write multiplication expressions using exponents TY5 2. Evaluate powers RFH 3. Multiply a decimal by a power of ten: with exponents JTV *Also consider* • Find the missing exponent or base E67
Lesson 3-2: Find the greatest common factor	1. Prime factorization 9CP 2. Greatest common factor AMB 3. Least common multiple NGA 4. Prime factorization with exponents WLU *Also consider* • GCF and LCM: word problems ZB8 • Factor numerical expressions using the distributive property MX2
Lesson 3-3: Write and evaluate numerical expressions	1. Evaluate numerical expressions with or without parentheses VG6 2. Evaluate numerical expressions with parentheses or brackets MLU 3. Evaluate numerical expressions with parentheses in different places NCR 4. Write numerical expressions for word problems XB2 *Also consider* • Evaluate numerical expressions one step at a time XCQ • Evaluate numerical expressions involving decimals YEE • Evaluate numerical expressions involving fractions WNE

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- Identify mistakes involving the order of operations V46

Lesson 3-4: Write algebraic expressions

1. Write variable expressions RCV
2. Write variable expressions: word problems 6LQ
3. Identify terms and coefficients 9KE

Lesson 3-5: Evaluate algebraic expressions

1. Evaluate variable expressions QZR
2. Evaluate variable expressions with decimals, fractions, and mixed numbers 49T
3. Evaluate variable expressions: word problems 7XA

Lesson 3-6: Apply properties of operations: algebraic expressions

1. Multiply using the distributive property with negative numbers UQL
2. Factor variable expressions using the distributive property PGZ

Also consider

- Write equivalent expressions using properties R8H
- Multiply using the distributive property with negative numbers: area models 5JA
- Factor linear expressions: area models 8YX

Lesson 3-7: Simplify algebraic expressions

1. Add and subtract like terms CN9
2. Identify equivalent expressions I Q5F
3. Identify equivalent expressions II 65C

Also consider

- Identify equivalent expressions using strip models W5U
- Identify equivalent linear expressions using algebra tiles UJY

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Topic 4

Represent and solve equations and inequalities

Textbook section	IXL skills
Lesson 4-1: Understand equations and solutions	1. Does x satisfy an equation? DRR 2. Which x satisfies an equation? LMM *Also consider* • Identify expressions and equations GCQ
Lesson 4-2: Apply properties of equality	1. Properties of equality 5NB
Lesson 4-3: Write and solve addition and subtraction equations	1. Model and solve addition equations using algebra tiles 3U7 2. Solve one-step addition and subtraction equations 55Z 3. Solve one-step addition and subtraction equations: word problems 35Q 4. Write and solve addition and subtraction equations using diagrams: word problems DWH
Lesson 4-4: Write and solve multiplication and division equations	1. Solve one-step multiplication and division equations 2S8 2. Write and solve multiplication and division equations using diagrams: word problems ZP6 3. Solve one-step multiplication and division equations: word problems GMV *Also consider* • Solve one-step equations involving integers 7JV • Which word problem matches the one-step equation? WYQ
Lesson 4-5: Write and solve equations with rational numbers	1. Solve one-step addition and subtraction equations with decimals and fractions 5D2 2. Solve one-step multiplication and division equations with decimals and fractions T53 3. Solve one-step equations: word problems BXY

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Lesson 4-6: Understand and write inequalities	1. Solutions to inequalities JF7
Lesson 4-7: Represent solutions to inequalities	1. Graph inequalities on number lines CXX 2. Write inequalities from number lines N99 3. Write and graph inequalities: word problems AGB

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Topic 5

Understand and use ratio and rate

Textbook section	IXL skills
Lesson 5-1: Understand ratios	1. Write a ratio V7K 2. Use tape diagrams to solve ratio word problems B2A *Also consider* • Which model represents the ratio? 66V
Lesson 5-2: Generate equivalent ratios	1. Identify equivalent ratios 2LM 2. Write an equivalent ratio NEA 3. Ratio tables PPF *Also consider* • Equivalent ratios: word problems RLZ
Lesson 5-3: Compare ratios	1. Compare ratios: word problems 2HT
Lesson 5-4: Represent and graph ratios	1. Ratios and rates: complete a table and make a graph 6Z2
Lesson 5-5: Understand rates and unit rates	1. Unit rates JSZ 2. Rates: word problems 9AF
Lesson 5-6: Compare unit rates	1. Compare rates: word problems NAF 2. Unit prices UKD
Lesson 5-7: Solve unit rate problems	1. Ratios and rates: word problems ZB9 2. Calculate speed, distance, or time: word problems TLB
Lesson 5-8: Ratio reasoning: convert customary units	1. Convert customary units WQY 2. Convert customary units using proportions JG8 3. Multi-step problems with customary unit conversions CQT

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Lesson 5-9: Ratio reasoning: convert metric units

1. Convert metric units KRR
2. Convert metric units using proportions VLV
3. Multi-step problems with metric unit conversions MZA

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Topic 6

Understand and use percent

Textbook section	IXL skills
Lesson 6-1: Understand percent	1. What percentage is illustrated? RHG 2. Benchmark percents with strip models: multiples of 10, 20, 25, 33, and 50 5JV 3. Convert fractions to percents using grid models ZDZ
Lesson 6-2: Relate fractions, decimals, and percents	1. Convert between percents, fractions, and decimals ZAV 2. Convert between percents, fractions, and decimals: word problems CGG
Lesson 6-3: Represent percents greater than 100 or less than 1	1. Convert between percents, fractions, and decimals: percents greater than 100% B2U
Lesson 6-4: Estimate to find percent	1. Estimate percents of numbers 9CV
Lesson 6-5: Find the percent of a number	1. Percents of numbers and money amounts 8N4 2. Find what percent one number is of another PE7 3. Solve percent word problems YWB *Also consider* • Percents of numbers: fractional and decimal percents CD5 • Percents - calculate tax, tip, mark-up, and more 32K • Sale prices 5GH
Lesson 6-6: Find the whole given the part and the percent	1. Find the total given a part and a percent D6L 2. Solve percent problems using strip models MEA *Also consider* • Sale prices: find the original price NW7

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Topic 7

Model and solve problems involving geometry

Textbook section	IXL skills
Lesson 7-1: Represent rational numbers on the coordinate plane	1. Objects on a coordinate plane GFN 2. Graph points on a coordinate plane VHQ 3. Reflections of points KDG *Also consider* • Quadrants F5T • Describe the coordinate plane KU7
Lesson 7-2: Solve problems on the coordinate plane	1. Distances on coordinate planes as maps 2QH 2. Distance between two points A7P 3. Graph quadrilaterals on the coordinate plane ASR 4. Area and perimeter of squares and rectangles on the coordinate plane UCD *Also consider* • Follow directions on a coordinate plane XDQ
Lesson 7-3: Derive and apply the triangle area formula	1. Understanding area of a triangle QEY 2. Area of triangles C8S 3. Area of quadrilaterals and triangles: word problems 9RW
Lesson 7-4: Decompose polygons into triangles and rectangles	1. Area of compound figures with triangles 5V2 2. Area between two rectangles EY6 3. Area of figures on the coordinate plane 5AW
Lesson 7-5: Represent solid figures using nets	1. Nets of three-dimensional figures 8KP 2. Count vertices, edges, and faces 8SF *Also consider* • Which figure is being described? 9WV
Lesson 7-6: Find surface areas of prisms	1. Surface area of cubes and rectangular prisms RMG

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Lesson 7-7: Find surface areas of pyramids	1. Surface area of rectangular pyramids EZ6
Lesson 7-8: Find volume with fractional edge lengths	1. Volume of cubes and rectangular prisms with fractional side lengths BQK 2. Volume of cubes and rectangular prisms: word problems BBM *Also consider* • Volume of cubes and rectangular prisms XHF

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Topic 8

Display, describe, and summarize data

Textbook section	IXL skills
Lesson 8-1: Recognize statistical questions	1. Identify statistical questions PT7
Lesson 8-2: Summarize data using mean, median, mode, and range	1. Calculate mean, median, mode, and range ZZK 2. Changes in mean, median, mode, and range 2G9 *Also consider* • Mean, median, mode, and range: find the missing number 77K
Lesson 8-3: Describe and interpret line plots	1. Interpret line plots RZS 2. Describe shapes of distributions in line plots C5E 3. Identify an outlier 86B
Lesson 8-4: Display data in frequency tables and histograms	1. Interpret frequency tables TGR 2. Create frequency tables UUN 3. Interpret histograms CBF 4. Create histograms 7NG
Lesson 8-5: Display data in box plots	1. Calculate quartiles and interquartile range MNV 2. Box plots E9F
Lesson 8-6: Determine how data changes impact statistical measures	

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