



IXL Skill Plan for the TABE[®] Math Level E



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Number and Operations - Base Ten

Standard	IXL skills
Identify the values of digits of two- and three-digit numbers	1. Place value - up to hundreds BDF
Create and use multiple representations of multi-digit numbers based on place value (e.g., base ten blocks, place value charts, expanded form)	1. Convert between place values - ones and hundreds 9T6 2. Place value models - up to hundreds PBX 3. Convert to/from a number - up to hundreds HUX
Round numbers to tens and hundreds places	1. Rounding - nearest ten or hundred only Q65
Round numbers to nearest hundreds and thousands place	
Multiply single-digit whole numbers by 10	1. Multiply by 10 6YD
Skip count by 5s, 10s, and 100s	1. Skip-counting by fives and tens FVF 2. Count forward and backward by fives and tens 8JK 3. Count forward and backward by fives, tens, and hundreds R5A
Skip count by 5s, 10s, 100s, and by multiples of 10s and 100s	1. Count forward and backward by fives, tens, and hundreds R5A
Explore patterns in multiplying numbers by 10	1. Multiply by a multiple of ten MS6
Compare values of digits in multi-digit numbers	1. Comparing numbers up to 1,000 XF9
Create and use multiple representations of addition and subtraction of two- and three-digit numbers based on place value (e.g., base ten blocks, area models) and connect these representations to the standard algorithms (especially where regrouping is required)	Add multiples of 10 and 100 1. Add multiples of 100 85Z 2. Add multiples of 10 or 100 RCJ Add two-digit numbers 3. Add two-digit numbers - sums to 200 GZY 4. Add a two-digit and a one-digit number - without regrouping EZ7

5. Add a two-digit and a one-digit number - with regrouping 8BT
6. Add two-digit numbers without regrouping - sums to 100 TX5
7. Add two-digit numbers with regrouping - sums to 100 GLX

Add three-digit numbers

8. Addition with three-digit numbers ETW
9. Use models to add three-digit numbers - without regrouping Q7V
10. Use models to add three-digit numbers - with regrouping KUG

Subtract multiples of 10 and 100

11. Subtract multiples of 100 2E2
12. Subtract multiples of 10 or 100 VVM

Subtract two-digit numbers

13. Subtract two two-digit numbers - without regrouping R8C
14. Subtract two two-digit numbers - with regrouping TWE

Subtract three-digit numbers

15. Subtract three-digit numbers ZVR

Regroup tens and ones

16. Regroup tens and ones - ways to make a number JKT
17. Regroup tens and ones 5LV

Number and Operations - Fractions

Standard	IXL skills
Identify some representations of fractions	<ol style="list-style-type: none"> 1. Understand fractions: fraction bars 6JL 2. Understand fractions: area models RTW
Use unit fractions to compose simple, non-unit fractions	<ol style="list-style-type: none"> 1. Match fractions to models: halves, thirds, and fourths Y55 2. Match unit fractions to models CPK 3. Match fractions to models YHL
Use unit fractions to compose and decompose non-unit fractions	<p>Compose fractions</p> <ol style="list-style-type: none"> 1. Show fractions: fraction bars ZPW 2. Show fractions: area models NLE <p>Decompose fractions</p> <ol style="list-style-type: none"> 3. Decompose fractions into unit fractions XHG 4. Decompose fractions N2Z
Use unit fractions and non-unit fractions to compose and decompose non-unit fractions in different ways	<ol style="list-style-type: none"> 1. Decompose fractions multiple ways UEW
Create and use multiple representations of fractions (e.g., number lines, area models, set models)	<p>Unit fractions</p> <ol style="list-style-type: none"> 1. Unit fractions: modeling word problems UV8 2. Unit fractions: word problems HM7 <p>Fractions of a whole</p> <ol style="list-style-type: none"> 3. Fractions of a whole: modeling word problems 9PU 4. Fractions of a whole: word problems BV7 <p>Fractions on a number line</p> <ol style="list-style-type: none"> 5. Fractions of number lines J8M 6. Identify fractions on number lines AWH 7. Graph fractions on number lines 7QM

Use multiple representations to identify or create an equivalent fraction to a given fraction or whole number

Find equivalent fractions

1. Find equivalent fractions using area models: two models ZJ2
2. Find equivalent fractions using area models: one model 6DY
3. Identify equivalent fractions 7DA
4. Find equivalent fractions WMX
5. Graph equivalent fractions on number lines WQL

Find fractions equivalent to whole numbers

6. Select fractions equivalent to whole numbers using area models GKZ
7. Find fractions equivalent to whole numbers KCE
8. Graph fractions equivalent to 1 on number lines 7BL

Identify benchmark fractions (e.g., $\frac{1}{2}$) and reason about their sizes

1. Benchmark fractions EEU

Compare fractions to benchmark fractions (e.g., $\frac{1}{2}$) and reason about their sizes

Compare fractions with the same numerators or the same denominators by reasoning about their sizes (using benchmark fractions)

Compare fractions

1. Compare fractions in recipes 9BK
2. Compare fractions using models MJ2
3. Compare fractions using number lines 38T
4. Compare fractions 78D

Graph and compare fractions

5. Graph and compare fractions with like denominators on number lines 63U
6. Graph and compare fractions with like numerators on number lines ZPD
7. Graph and compare fractions on number lines 6H5
8. Graph smaller or larger fractions on a number line 2PH

Operations and Algebraic Thinking

Standard	IXL skills
<p>Identify visual representations of multiplication and division of whole numbers (e.g., arrays, equal groups, area models)</p>	<p>Multiplication</p> <ol style="list-style-type: none"> 1. Identify multiplication expressions for equal groups 9AE 2. Write multiplication sentences for equal groups V98 3. Identify multiplication expressions for arrays HZL 4. Write multiplication sentences for arrays 5FZ <p>Division</p> <ol style="list-style-type: none"> 5. Divide by counting equal groups UYK 6. Write division sentences for groups FSX 7. Write division sentences for arrays 8RW
<p>Solve multiplication and division problems using math fact strategies</p>	<ol style="list-style-type: none"> 1. Properties of multiplication MPE 2. Distributive property: find the missing factor 7VP 3. Multiply using the distributive property 6W7 4. Relate multiplication and division 67L
<p>Use equations to connect an unknown product of a multiplication problem to a missing factor in a related division problem</p>	<ol style="list-style-type: none"> 1. Multiplication facts up to 10: select the missing factors WZA 2. Division facts up to 10: select the missing numbers FPA
<p>Solve real-world problems involving multiplication and division while using visual representations to show the process</p>	<p>Multiplication and division</p> <ol style="list-style-type: none"> 1. Multiplication word problems 9TA 2. Multiplication word problems: find the missing factor F6C 3. Division word problems ECS 4. Multiplication and division word problems 85K 5. Two-step multiplication and division word problems 8FP <p>Mixed operations</p> <ol style="list-style-type: none"> 6. Addition, subtraction, multiplication, and division word problems X8W

7. Two-step mixed operation word problems SRL

Variable equations

8. Solve for the variable D65

9. Write variable equations to represent word problems: multiplication and division only ZNN

Connect visual representations of real-world problems to expressions and equations that also represent the real-world problems

1. Write variable equations to represent word problems U6P

Use number patterns with simple addition rules to investigate how they relate to multiplication and division

1. Relate addition and multiplication for equal groups GGC

2. Relate addition and multiplication P74

Create and use visual representations of multiplication and division of whole numbers (e.g., arrays, equal groups, area models)

1. Make arrays to model multiplication PPR

Solve basic multiplication problems using math fact strategies

1. Solve using properties of multiplication YPF

Identify an addition rule given a pattern and create patterns when given simple addition rules

1. Addition input/output tables: up to three digits MUE

Geometry

Standard	IXL skills
Extend properties of two-dimensional shapes to three-dimensional shapes	<ol style="list-style-type: none"> 1. Count vertices, edges, and faces X72 2. Compare vertices, edges, and faces DPT
Identify simple features (number of sides, number of angles, etc.) of given shapes with pictures	<ol style="list-style-type: none"> 1. Count sides and vertices EAQ
Identify properties of shapes with three or four sides	
Explore properties of shapes with more than four sides	
Identify features of given shapes with words and pictures	<p>Two-dimensional shapes</p> <ol style="list-style-type: none"> 1. Name the two-dimensional shape 2FK 2. Select two-dimensional shapes DWL
	<p>Three-dimensional solids</p> <ol style="list-style-type: none"> 3. Identify faces of three-dimensional shapes QSR 4. Identify shapes traced from solids MRD
Identify shapes whose areas have been partitioned into halves and quarters	<ol style="list-style-type: none"> 1. Make halves XME 2. Make fourths QZ9
Describe and analyze features of shapes extending beyond numbers of sides and angles (e.g., relationships between pairs of sides or angles)	<ol style="list-style-type: none"> 1. Parallel sides in quadrilaterals 6E9
Identify features of given shapes with words and pictures together and separately	<ol style="list-style-type: none"> 1. Identify rectangles 47T
Identify both properties of given shapes and shapes with given properties	<ol style="list-style-type: none"> 1. Identify parallelograms V6L 2. Identify trapezoids 67A 3. Identify rectangles 47T 4. Identify rhombuses ZSD

Analyze polygons with similar properties and some of the same features

1. Classify quadrilaterals CNJ

Identify and create non-examples of shapes

Create and use visual representations to partition areas of shapes

1. Identify equal parts FHY
 2. Make halves, thirds, and fourths HGP
 3. Make sixths and eighths KTM
 4. Make halves, thirds, fourths, sixths, and eighths JHE
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Measurement and Data

Standard	IXL skills
Measure objects in different units (with fractional lengths) and compare these measurements	1. Measure using an inch ruler LC2
Estimate the length of an object before measuring the object	1. Which customary unit of length is appropriate: inches or feet? 5XG 2. Which metric unit of length is appropriate? SKH
Find elapsed time when given a start and end time	1. Elapsed time word problems: find the elapsed time V9D
Solve problems involving addition and subtraction of time intervals, especially working backward from a given end time	1. Elapsed time: find the end time U7B
Extend arithmetic operations to real-world problems involving volumes and masses of objects	1. Measurement word problems VPW
Find areas and perimeters of squares and rectangles	1. Perimeter of rectangles ZJT 2. Relationship between area and perimeter: find the perimeter ZWF 3. Relationship between area and perimeter: find the area KNR
Identify and create squares and rectangles with given areas or perimeters	1. Create rectangles with a given area V73
Identify and create squares and rectangles with the same areas and different perimeters	
Identify bar graphs that match a given data set and explain simple characteristics (e.g., category totals)	1. Which bar graph is correct? BMG
Create bar graphs from given data sets and explain simple characteristics (e.g., category totals)	1. Create bar graphs 6KD 2. Interpret bar graphs II 8CH
Use bar graphs with different scales to solve problems involving multiple categories	1. Use bar graphs to solve problems BCJ