



IXL Skill Plan for the Dynamic Learning Maps[®] Essential Elements Precalculus



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www.ixl.com/math/skill-plans/dynamic-learning-maps-essential-elements-prec calculus

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Number and Quantity

N.CN: The Complex Number System

Standard

Perform arithmetic operations with complex numbers.

M.EE.N.CN.2.a: Use the commutative, associative, and distributive properties to add, subtract, and multiply whole numbers.

M.EE.N.CN.2.b: Solve real-world problems involving addition and subtraction of decimals, using models when needed.

IXL skills

Addition and subtraction

1. Properties of addition 86E
2. Add two numbers RGE
3. Add three or more numbers EUU
4. Subtract two numbers 9H6
5. Add and subtract whole numbers 2KJ

Multiplication

6. Commutative and associative properties of multiplication R8Y
7. Multiply 1-digit numbers by teen numbers using grids 8UH
8. Multiply 1-digit numbers by 2-digit numbers using area models 2EA
9. Multiply 1-digit numbers by 2-digit numbers using the distributive property M9J
10. Multiply by 1-digit numbers 7H4
11. Multiply 2-digit numbers by 2-digit numbers using area models LPJ
12. Multiply 2-digit numbers by 2-digit numbers LLJ
13. Multiply two-digit numbers using the distributive property ZPT
14. Multiply whole numbers ZCL

Addition

1. Add decimals using blocks 9F9
2. Add decimal numbers BDJ

Subtraction

3. Subtract decimal numbers using blocks 9FC
4. Subtract decimal numbers SC8

Mixed operations

5. Add and subtract decimal numbers 7VJ
6. Add and subtract decimals: word problems 35U
7. Add and subtract money amounts: word problems DR9
8. Price lists: addition and subtraction ZPP

M.EE.N.CN.2.c: Solve real-world problems involving multiplication of decimals and whole numbers, using models when needed.

Multiply decimals and whole numbers

1. Multiply a decimal by a one-digit whole number using blocks XFN
2. Multiply a decimal by a one-digit whole number XNY
3. Multiply a decimal by a two-digit whole number using area models 89M
4. Multiply a decimal by a multi-digit whole number PGM
5. Multiply decimals and whole numbers: word problems VZN
6. Multiply money: word problems C5S

Multiply decimals

7. Multiply decimals less than one using grids F8D
 8. Multiply decimals using grids NY9
 9. Multiply decimals using area models: products up to hundredths E5D
 10. Multiply two decimals: products up to hundredths FLL
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Functions

F.BF: Building Functions

Standard

IXL skills

Build a function that models a relationship between two quantities.

M.EE.F.BF.1: Select the appropriate graphical representation (first quadrant) given a situation involving constant rate of change.

1. Graph a proportional relationship: word problems FJW
2. Complete a table and make a graph: word problems JFK

M.EE.F.BF.2: Determine an arithmetic sequence with whole numbers when provided a recursive rule.

1. Arithmetic sequences WX5

Geometry

G.GMD: Geometric Measurement and Dimension

Standard

IXL skills

Explain volume formulas, and use them to solve problems.

M.EE.G.GMD.1–3: Make a prediction about the volume of a container, the area of a figure, and the perimeter of a figure, and then test the prediction using formulas or models.

1. Find the perimeter of rectangles using formulas KGJ
2. Find the area of rectangles using formulas JBF
3. Volume of cubes and rectangular prisms TFL