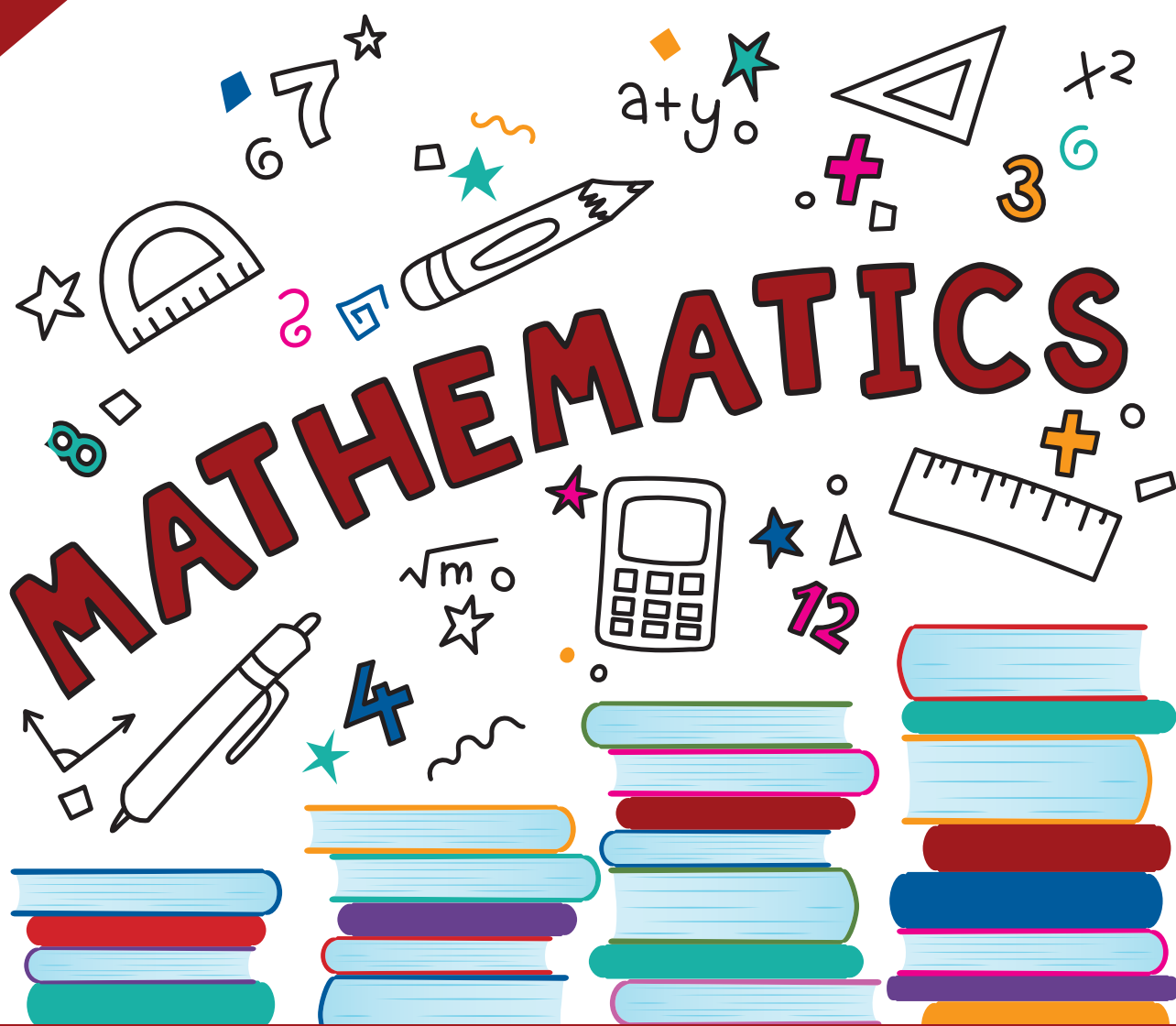




Grade 8

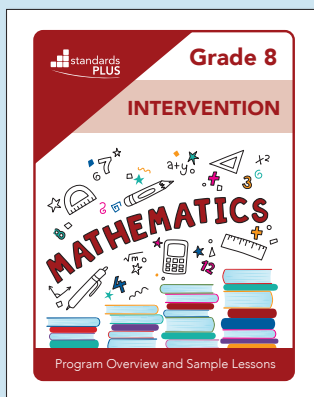
INTERVENTION



Program Overview and Sample Lessons

Teachers are the most important factor in student learning.

That's why every Standards Plus Lesson is directly taught by a teacher.



Standards Plus Intervention is Ideal for:

- Small group instruction
- After school programs
- Special Education settings to meet IEP goals
- Summer school programs

Standards Plus Intervention is Easy to Use:

1. Use your data or the included pre-assessments to identify students and intervention topics.
2. Find targeted lessons by topic in the lesson index.
3. Teach scaffolded direct instruction lessons to support student mastery of grade level standards.
4. Provide immediate feedback during each lesson, so errors don't become habits.
5. Measure student progress with post-assessments and performance tasks.

How Standards Plus Increases Student Achievement



TEACHERS are the most important factor in student learning.



DIRECT INSTRUCTION lessons are proven to foster the most significant gains in student achievement.



DISCRETE LEARNING TARGETS provide easily understood instruction that allow students to retain information.



MULTIPLE EXPOSURES TO EACH STANDARD/SKILL

Skills are presented in four to eight lessons, providing students multiple opportunities to practice and retain information.



IMMEDIATE FEEDBACK after every lesson provides the most powerful single modification that enhances student achievement.



FORMATIVE ASSESSMENTS are proven to be highly effective in providing information that leads to increased student achievement.



BUILT ON RESEARCH

All Standards Plus lessons are designed according to proven educational research.

Standards Plus Intervention Includes:

Pre-Assessments

Administer pre-assessments to identify students and intervention topics if you don't have existing performance data.



Tier 2 & Tier 3 Intervention Lessons

100+ Lessons (DOK 1-2)

Students learn the prerequisite skills necessary for the mastery of grade-level standards.



Performance Tasks

8+ Tasks (DOK 3)

Formative assessments that build on earlier content knowledge and acquired skills. Performance tasks are strategically placed to enhance learning as students apply their knowledge and skills.

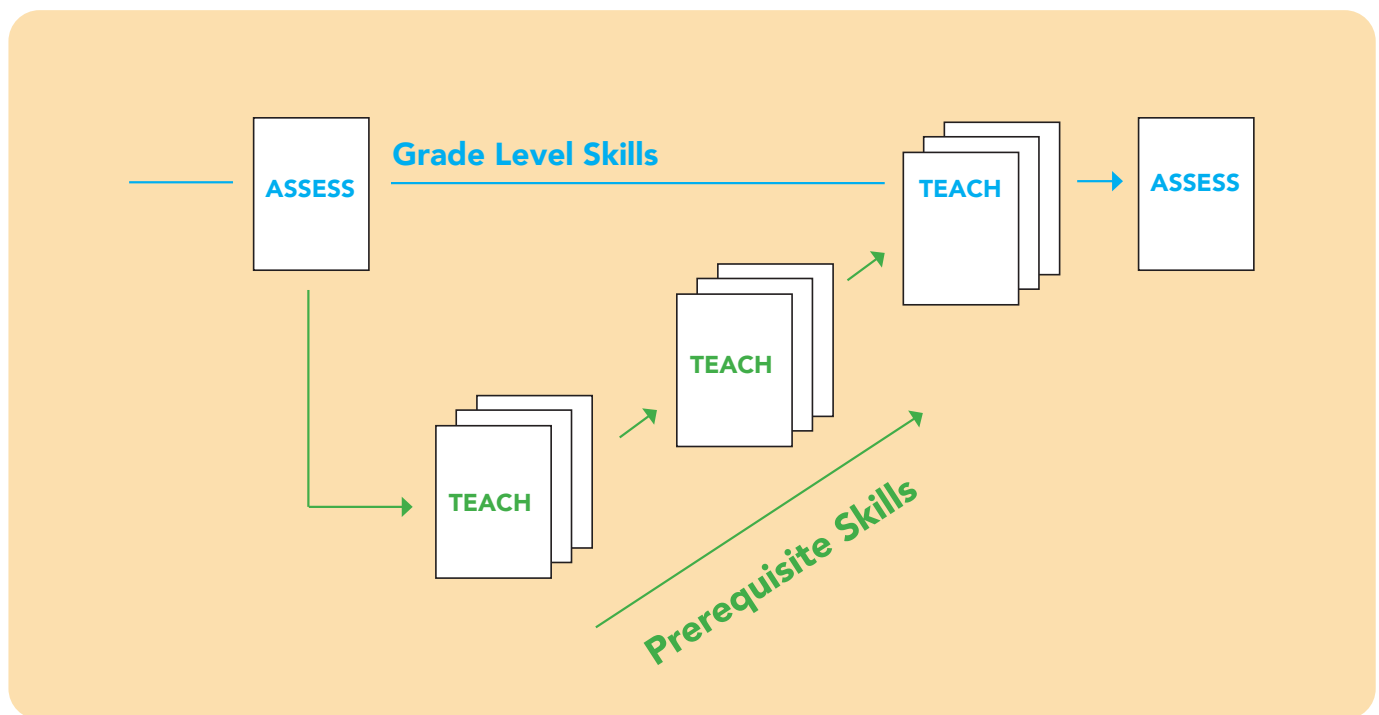


Post-Assessments

Administer a post-assessment to measure and validate student progress.

How Standards Plus Intervention Works

Standards Plus scaffolded intervention lessons teach the prerequisite skills necessary to master grade-level standards.



Each lesson includes a **step-by-step direct instruction lesson plan** that helps teachers effectively build readiness for grade level standards.

EL Support



Standards Plus materials are designed to meet the needs of English Learners by:

- Explicitly targeting the standards
- Emphasizing academic vocabulary
- Accelerating language development
- Providing immediate feedback to students
- Improving student confidence

Explore our EL Support Portal to view additional resources that provide a greater level of support for English Learners.

Visit the EL Support Portal at
www.standardsplus.org/el-support



Standards Plus Intervention Mathematics Grade 8

Lesson Index

The lesson index lists the standard, focus,
and DOK level for every Standards Plus
Intervention lesson.



Standards Plus® Intervention - Mathematics Grade 8

Lesson Index

Domain	Lesson	Focus	Standard(s) References	TE pg	St. Ed. pg	DOK
The Number System	Pre 1	Pre-Assessment-Conversion & Comparison	8.NS.1	14	3	1-2
	1	Fraction/Decimal Conversion	<i>Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.</i>	16	5	
	2	Fraction/Decimal Conversion		18	6	
	3	Compare & Order Fractions		20	7	
	4	Compare & Order Fractions/Decimals		22	8	
	5	Compare & Order Fractions/Decimals		24	9	
	P1	Performance Task #1 – Writing Comparison Problems (8.NS.1)		26	10	3
	Post 1	Post-Assessment-Conversion & Comparison	8.NS.1	28	11	1-2
Expressions & Equations	Pre 2	Pre-Assessment- Rational Numbers	8.EE.1, 8.EE.2, 8.EE.7, 8.NS.2	36	13	1-2
	1	Exponents	<i>Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.</i>	38	15	
	2	Exponents		40	16	
	3	Exponents		42	17	
	4	Exponents		44	18	
	5	Absolute Value		46	19	
	6	Absolute Value		48	20	
	7	Perfect Squares		50	21	
	8	Perfect Squares		52	22	
	9	Estimating Square Roots		54	23	
	10	Estimating Square Roots		56	24	
	P2	Performance Task #2 – Using Exponential Expressions (8.EE.1)		58	25	3
	Post 2	Post-Assessment- Rational Numbers	8.EE.1, 8.EE.2, 8.EE.7, 8.NS.2	60	26	1-2
	Pre 3	Pre-Assessment-Expressions & Equations	8.EE.7, 8.EE.8	62	27	1-2
	11	Evaluating Variable Expressions	<i>Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.</i>	64	29	
	12	Writing Variable Expressions		66	30	
	13	Order of Operations		68	31	
	14	Using the Distributive Property		70	32	
	15	Using the Distributive Property		72	33	
	16	Solving Two-Step Equations		74	34	
	17	Solving Two-Step Equations		76	35	
	18	Writing Equations		78	36	
	19	Writing Equations		80	37	
	P3	Performance Task #3 – What’s Your Operation? (8.EE.7, 8.EE.8)		82	38	3
	Post 3	Post-Assessment-Expressions & Equations	8.EE.7, 8.EE.8	84	39	1-2

Standards Plus® Intervention - Mathematics Grade 8

Lesson Index

Domain	Lesson	Focus	Standard(s) References	TE pg	St. Ed. pg	DOK	
Expressions & Equations	Pre 4	Pre-Assessment-Solve & Graph Equations	8.EE.5, 8.EE.6, 8.EE.7	86	41	1-2	
	20	Solve Linear Equations	Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.	88	43		
	21	Solve Linear Equations		90	44		
	22	Solve & Graph Linear Equations		92	45		
	23	Solve & Graph Linear Equations		94	46		
	24	Determining Slope		96	47		
	25	Determining Slope		98	48		
	26	Using Inverse Operations		100	49		
	27	Using Inverse Operations		102	50		
	P4	Performance Task #4 – What Is Slope? (8.EE.5, 8.EE.7)			104	51	3
	Post 4	Post-Assessment-Solve & Graph Equations	8.EE.5, 8.EE.6, 8.EE.7	106	52	1-2	
Functions	Pre 5	Pre-Assessment-Rate, Ratio, Unit Rate	8.F.2, 8.F.4, 8.F.5	114	53	1-2	
	1	Ratio	Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.	116	55		
	2	Unit Rate		118	56		
	3	Rate		120	57		
	4	Rate, Ratio, Unit Rate		122	58		
	5	Solving Rate Problems		124	59		
	6	Solving Average Speed Problems		126	60		
	7	Solving Rate & Average Speed Problems		128	61		
	P5	Performance Task #5 – Solving Rate Problems (8.F.2, 8.F.4, 8.F.5)			130	62	3
	Post 5	Post-Assessment-Rate, Ratio, Unit Rate	8.F.2, 8.F.4, 8.F.5	132	63	1-2	
	Pre 6	Pre-Assessment- Relationships	8.F.1, 8.F.2, 8.F.3, 8.F.4, 8.F.5	134	65	1-2	
	8	x- and y- Intercepts	Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.	136	67		
	9	x- and y- Intercepts		138	68		
	10	x- and y- Intercepts from a Linear Equation		140	69		
11	x- and y- Intercepts from a Linear Equation	142		70			
12	Graphing Linear Equations	144		71			
13	Graphing Linear Equations	146		72			
14	Identifying Functions	148		73			
P6	Performance Task #6 – Functions & Their Graphs (8.F.1- 8.F.5)			150	74	3	
Post 6	Post-Assessment- Relationships	8.F.1, 8.F.2, 8.F.3, 8.F.4, 8.F.5	152	75	1-2		

Standards Plus® Intervention - Mathematics Grade 8

Lesson Index

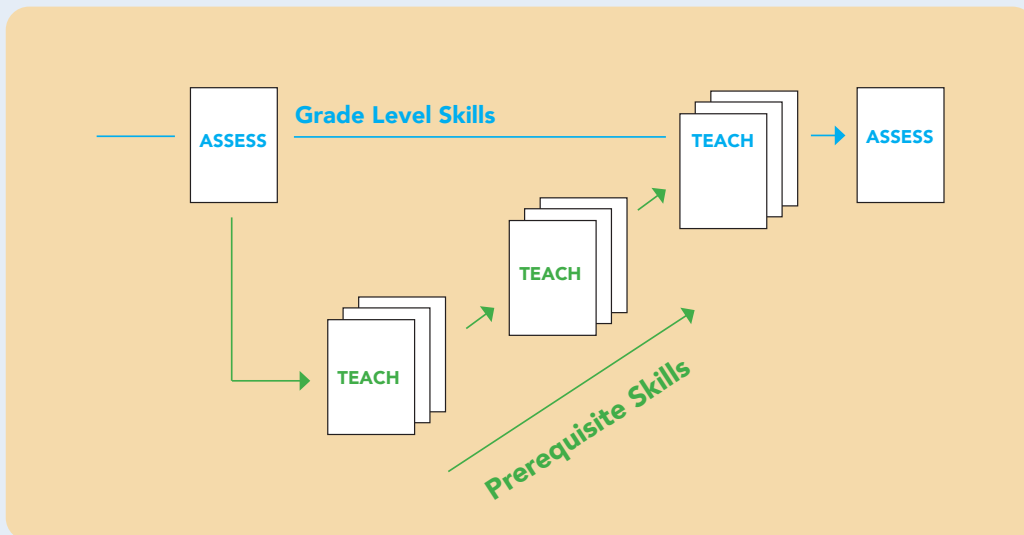
Domain	Lesson	Focus	Standard(s) References	TE pg	St. Ed. pg	DOK	
Statistics & Probability	Pre 7	Pre-Assessment-Exploring Probability	8.SP.4	16	3	1-2	
	1	Probability	<i>Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.</i>	18	5		
	2	Probability		20	6		
	3	Samples of Populations		22	7		
	4	Samples of Populations		24	8		
	5	Predict Outcomes for a Simple Event		26	9		
	6	Independent and Dependent Events		28	10		
	7	Probability and Proportions		30	11		
	8	Probability of Compound Events		32	12		
	9	Probability of Dependent Events		34	13		
	10	Probability of Compound/Dependent Events		36	14		
	P7	Performance Task #7 – Defining Samplings (8.SP.4)			38	15	3
	Post 7	Post-Assessment-Exploring Probability	8.SP.4	40	16	1-2	
	Pre 8	Pre-Assessment-Interpret & Display Data	8.SP.1, 8.SP.2	42	17	1-2	
	11	Determining Mean	<i>Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.</i>	44	19		
	12	Determining Median		46	20		
	13	Determining Mode		48	21		
	14	Mean, Median, Mode, Range, & Outliers		50	22		
	15	Mean, Median, Mode, Range, & Outliers		52	23		
	16	Tree Diagrams		54	24		
	17	Stem-anLeaf Plots		56	25		
	18	Quartiles		58	26		
	19	Quartiles		60	27		
	20	Box-anWhiskers Plots		62	28		
	P8	Performance Task #8 – Garden Design (8.SP.1, 8.SP.2)			64	29-30	3
	Post 8	Post-Assessment-Interpret & Display Data	8.SP.1, 8.SP.2	68	31	1-2	

Standards Plus® Intervention - Mathematics Grade 8

Lesson Index

Domain	Lesson	Focus	Standard(s) References	TE pg	St. Ed. pg	DOK
Geometry	Pre 9	Pre-Assessment-Circles & Congruency	8.G.2, 8.G.4	76	33	1-2
	1	Circles	<i>Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.</i>	78	35	
	2	Circles		80	36	
	3	Congruency		82	37	
	4	Congruency		84	38	
	5	Congruency		86	39	
	6	Congruency		88	40	
	P9	Performance Task #9 – How Do You Make It Congruent? (8.G.2, 8.G.4)		90	41	3
	Post 9	Post-Assessment-Circles & Congruency	8.G.2, 8.G.4	92	42	1-2
	Pre 10	Pre-Assessment-Graphing/Angles/Triangles	8.G.1, 8.G.2, 8.G.5	94	43	1-2
	7	Graphing in the Coordinate Plane	<i>Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.</i>	96	45	
	8	Graphing in the Coordinate Plane		98	46	
	9	Graphing in the Coordinate Plane		100	47	
	10	Graphing in the Coordinate Plane		102	48	
	11	Classifying Angles		104	49	
	12	Classifying Angles		106	50	
	13	Classifying Angles		108	51	
	14	Classifying Triangles		110	52	
	15	Classifying Triangles		112	53	
	16	Determine Unknown Angle Measures		114	54	
	17	Determine Unknown Angle Measures		116	55	
	P10	Performance Task #10 – Angles, Angles, Angles! (8.G.5)		118	56	3
	Post 10	Post-Assessment-Graphing/Angles/Triangles	8.G.1, 8.G.2, 8.G.5	120	57	1-2
	Pre 11	Pre-Assessment-Pythagorean Theorem	8.G.6, 8.G.7	122	59	1-2
	18	Pythagorean Theorem	<i>Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.</i>	124	61	
	19	Pythagorean Theorem		126	62	
	20	Pythagorean Theorem		128	63	
	21	Pythagorean Theorem		130	64	
	22	Pythagorean Theorem		132	65	
	23	Pythagorean Theorem		134	66	
	P11	Performance Task #12 – Why Is It Wrong? (8.G.6, 8.G.7)		136	67	3
	Post 11	Post-Assessment-Pythagorean Theorem	8.G.6, 8.G.7	138	68	1-2

Sample Lessons



Expressions & Equations

The highlighted lessons are provided as samples.

Domain	Lesson	Focus	Standard(s) References	TE pg	St. Ed. pg	DOK
Expressions & Equations	Pre 4	Pre-Assessment-Solve & Graph Equations	8.EE.5, 8.EE.6, 8.EE.7	86	41	1-2
	20	Solve Linear Equations	<i>Prerequisite skills and scaffolded instruction to build readiness for grade level standards and instruction.</i>	88	43	
	21	Solve Linear Equations		90	44	
	22	Solve & Graph Linear Equations		92	45	
	23	Solve & Graph Linear Equations		94	46	
	24	Determining Slope		96	47	
	25	Determining Slope		98	48	
	26	Using Inverse Operations		100	49	
	27	Using Inverse Operations		102	50	
	P4	Performance Task #4 – What Is Slope? (8.EE.5, 8.EE.7)		104	51	3
	Post 4	Post-Assessment-Solve & Graph Equations	8.EE.5, 8.EE.6, 8.EE.7	106	52	1-2

Sample Lesson Set - Expressions & Equations

Pre-4 - L20 - L21 - L22 - L23 - L24 - L25 - L26 - L27- Post-4

Sample Pre-Assessment - Teacher Page

Teacher Lesson Plan

Standards Plus® – Intervention Mathematics – Grade 8		
Domain: Expressions & Equations	Focus: Solve & Graph Equations	Pre-Assessment: 4

Procedure: Each intervention assessment is designed to be completed independently by the students. Read the directions aloud, and ensure that students understand how to mark their answer choices.

Review: Review the correct answers with students as soon as they are finished.

Answers:

1. $m = 126$
2. $w = 48$
3. Horizontal
4. $\frac{7}{6}$
5. $-\frac{2}{5}$
6. C
7. A

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Sample Lesson Set - Expressions & Equations
Pre-4 - L20 - L21 - L22 - L23 - L24 - L25 - L26 - L27- Post-4

Sample Pre-Assessment - Student Page

Student Page

Standards Plus® – Intervention Mathematics – Grade 8		
Domain: Expressions & Equations	Focus: Solve & Graph Equations	Pre-Assessment: 4

Directions: Solve each problem. Write your answers on the lines.

1. Solve for m . $2m + 63 = 315$ $m =$ _____

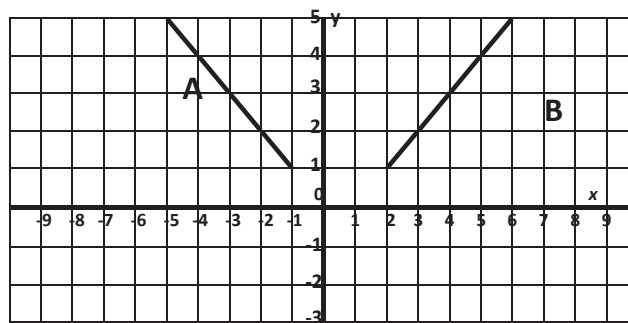
2. Solve for w . $\frac{w}{6} = 8$ $w =$ _____

3. What type of line has a slope of zero? _____

Directions: Use the slope formula to determine the slope of lines that contain the given points.

4. $(8, 4)$ and $(2, -3)$ Slope: _____ $m = \frac{y_1 - y_2}{x_1 - x_2}$

5. $(1, 5)$ and $(6, 3)$ Slope: _____



Directions: Determine the equation that defines the lines on the coordinate grid.

6. Which equation defines line A on the coordinate grid?

A. $x = y - 1$

B. $x = 1 - y$

C. $x = -y$

7. Which equation defines line B on the coordinate grid?

A. $x = y + 1$

B. $x = y - 1$

C. $x = y$

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Sample Lesson Set - Expressions & Equations

Pre-4 - **L20** - L21 - L22 - L23 - L24 - L25 - L26 - L27- Post-4

Sample Teacher Lesson Plan

Teacher Lesson Plan

Standards Plus® – Intervention Mathematics – Grade 8		
Domain: Expressions & Equations	Focus: Solve Linear Equations	Lesson: # 20

Lesson Objective: *Identify, solve, and graph equations.*

Introduction: Students read problems, complete tables, and write linear equations to explain situations.

Instruction: “Today you will read problems. You will create x and y tables to fit the problem situations. Then you will write the linear equation that fits each situation.”

Guided Practice: “Let’s look at the example. *Ramon makes \$8 an hour washing dishes. Make a table to show his earnings (x) for 8, 12, 16, and 20 hours (y).* Below this problem, we see a table that has been started for us. Look at the first row. When Ramon works 8 hours, he makes \$64. When he works 12 hours, how much money does he make? (\$96) When he works 16 hours, how much does he make? (\$128) When he works 20 hours, how much does he make? (\$160) The linear equation is $x = 8y$. This means that to find x , we multiply y by 8.”

Independent Practice: “Create a table and write the linear equation for each of the given situations.”

Review: After a few minutes, review together.

Closure: “Today you completed tables and wrote linear equations for problem situations.”

Answers:

1. (12, .5); (24, 1); (48, 2); (96, 4); $x = 24y$
2. (5, 1); (25, 5); (50, 10); (100, 20); $x = 5y$

Each lesson
includes
a step by
step lesson
plan.

Sample Lesson Set - Expressions & Equations

Pre-4 - **L20** - L21 - L22 - L23 - L24 - L25 - L26 - L27- Post-4

Sample Student Lesson

Student Page

Standards Plus® – Intervention Mathematics – Grade 8

Domain: Expressions & Equations

Focus: Solve Linear Equations

Lesson: # 20

Example: Ramon makes \$8 an hour washing dishes. Make a table to show his earnings (x) for 8, 12, 16, and 20 hours (y).

x	y
64	8
	12
	16
	20

Linear Equation: $x = 8y$

Directions: Create a table and write the linear equation for each of the given situations.

1. Ramon also tutors kids in math. He makes \$12 every half hour for tutoring. Make a table to show his earnings (x) for $\frac{1}{2}$, 1, 2, and 4 hours (y).

x	y
12	.5
	1
	2
	4

Linear equation: _____

2. Ramon pays his little sister to do his laundry. He pays her \$5 for each load of laundry that she washes, dries, and folds. Make a table to show what Ramon pays (x) for 1, 5, 10, and 20 loads of laundry (y).

x	y
5	1
	5
	10
	20

Linear equation: _____

Each lesson
also has
an easy to
follow
student
page.

Sample Lesson Set - Expressions & Equations

Pre-4 - L20 - L21 - L22 - **L23** - L24 - L25 - L26 - L27- Post-4

Lessons 21 and 22
are not shown.

Sample Teacher Lesson Plan

Teacher Lesson Plan

Standards Plus® – Intervention Mathematics – Grade 8		
Topic: Expressions & Equations	Focus: Solve and Graph Linear Equations	Lesson: # 23

Lesson Objective: *Identify, solve, and graph linear equations.*

Introduction: Students will identify the linear equation expressed as a line in the coordinate grid.

Instruction: “Today you will look at lines that have been graphed on the coordinate grid. You will determine which linear equation is defined by each line.”

Guided Practice: “Let’s look at the example. *Which equation defines line A on the coordinate grid below?* Here we have three answer choices. We can write the coordinate pairs for several points on the line to help us determine the linear equation that is defined by the line. $(-9, 9)$, $(-8, 8)$, $(-7, 7)$, and $(-6, 6)$ are all points on this line. What is the relationship of x to y ? (x is negative y) $x = -y$. Do you see this equation as an answer choice? (C.) Circle answer choice C.”

Independent Practice: “Determine the equation that defines the lines on the coordinate grid above.”

Review: After a few minutes, review together.

Closure: “Today you identified the linear equation that matched a line graphed in the coordinate grid.”

Answers:

1. A
2. B
3. C
4. B

Each lesson plan includes the following direct instruction components:

Introduction

Instruction

Guided Practice

Independent Practice

Review

Closure

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Sample Lesson Set - Expressions & Equations

Pre-4 - L20 - L21 - L22 - **L23** - L24 - L25 - L26 - L27- Post-4

Lessons 21 and 22
are not shown.

Sample Student Lesson

Student Page

Standards Plus® – Intervention Mathematics – Grade 8

Topic: Expressions & Equations

Focus: Solve and Graph Linear Equations

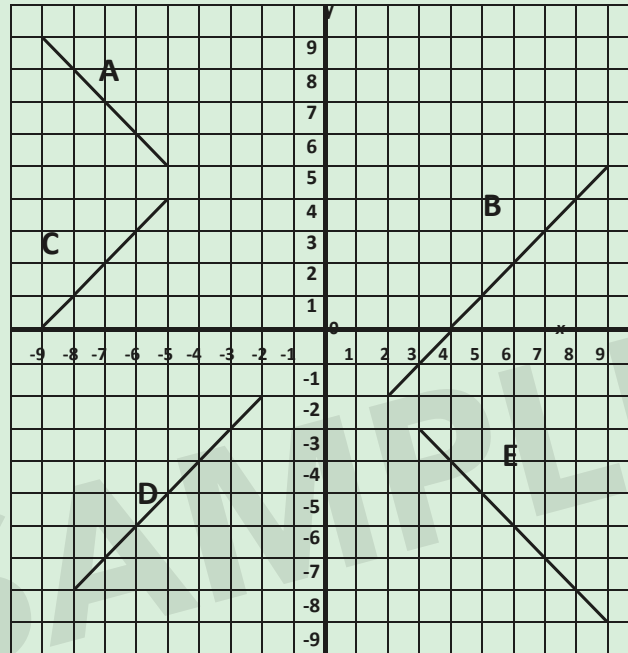
Lesson: # 23

Example: Which equation defines line A on the coordinate grid below?

A. $x = y - 1$

B. $x = 1 - y$

C. $x = -y$



Directions: Determine the equation that defines the lines on the coordinate grid above.

1. Line B:

A. $x = y + 4$

B. $x = y - 4$

C. $x = 4y$

2. Line C:

A. $x = y + 9$

B. $x = y - 9$

C. $x = -9y$

3. Line D:

A. $x = y - 1$

B. $x = y + 1$

C. $x = y$

4. Line E:

A. $x = y$

B. $x = -y$

C. $x = y - 1$

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Each student
page includes
examples
for
Guided
Practice...

...and
items to be
completed
in
Independent
Practice.

Sample Lesson Set - Expressions & Equations

Pre-4 - L20 - L21 - L22 - L23 - L24 - L25 - L26 - **L27** - Post-4

Sample Teacher Lesson Plan

Lessons 24-26
are not shown.

Teacher Lesson Plan

Standards Plus® – Intervention Mathematics – Grade 8		
Domain: Expressions & Equations	Focus: Using Inverse Operations	Lesson: # 27

Lesson Objective: *Use inverse operations to solve problems.*

Introduction: Students will use inverse operations to solve problems in today's lesson.

Instruction: "An equation is a mathematical sentence with an equal sign. In an equation such as $3n = 27$, a value of the variable that makes the equation true is called a solution. We can use inverse (opposite) operations to solve for the variable. We can solve equations using inverse operations. To solve or *undo* a multiplication equation, we will use division. To solve or *undo* a division equation, we will use multiplication."

Guided Practice: "Let's complete the examples together. Look at Example A: $6m = 42$. We divide both sides of the equation by 6: $6m \div 6 = 42 \div 6$. We simplify: $m = 7$. We check by substituting the solution for the variable: $6(7) = 42$. Now look at Example B:

$\frac{r}{7} = 6$. We multiply both sides of the equation by 7: $\frac{r}{7}(7) = 6(7)$. We simplify: $r = 42$.

We check by substituting the solution for the variable: $\frac{42}{7} = 6$."

Independent Practice: "Use inverse operations to solve each problem."

Review: After a few minutes, review together.

Closure: "Today you used inverse operations to solve problems."

Answers:

1. 176
2. 20.2
3. 120
4. 1.4

Each lesson
plan
includes
an answer
key

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Sample Lesson Set - Expressions & Equations

Pre-4 - L20 - L21 - L22 - L23 - L24 - L25 - L26 - **L27** - Post-4

Sample Student Lesson

Lessons 24-26
are not shown.

Student Page

Standards Plus® – Intervention Mathematics – Grade 8

Domain: Expressions & Equations

Focus: Using Inverse Operations

Lesson: # 27

Example A: $6m = 42$

Step 1: Divide both sides of the equation by 6.

Step 2: Simplify.

Step 3: To check your answer, substitute the solution for the variable.

Example B: $\frac{r}{7} = 6$

Step 1: Multiply both sides of the equation by 7.

Step 2: Simplify.

Step 3: To check your answer, substitute the solution for the variable.

Directions: Use inverse operations to solve each problem.

1. $\frac{m}{8} = 22$

2. $3r = 60.6$

3. $\frac{z}{2.5} = 48$

4. $1.2y = 1.68$

After
students
complete
Independent
Practice,
review
each item
to check for
understanding.

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Sample Lesson Set - Expressions & Equations

Pre-4 - L20 - L21 - L22 - L23 - L24 - L25 - L26 - L27- **Post-4**

Sample Post-Assessment - Teacher Page

Teacher Lesson Plan

Standards Plus® – Intervention Mathematics – Grade 8		
Domain: Expressions & Equations	Focus: Solve & Graph Equations	Post-Assessment: A4

Procedure: Each intervention assessment is designed to be completed independently by the students. Read the directions aloud, and ensure that students understand how to mark their answer choices.

Review: Review the correct answers with students as soon as they are finished.

Answers:

1. $m = 99$
2. $w = 72$
3. Vertical
4. $\frac{8}{10}$ or $\frac{4}{5}$
5. $\frac{8}{4}$ or 2
6. A
7. B

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Sample Lesson Set - Expressions & Equations
Pre-4 - L20 - L21 - L22 - L23 - L24 - L25 - L26 - L27- **Post-4**

Sample Post-Assessment - Student Page

Student Page

Standards Plus® – Intervention Mathematics – Grade 8

Domain: Expressions & Equations

Focus: Solve & Graph Equations

Post-Assessment: A4

Directions: Solve each problem. Write your answers on the lines.

1. Solve for m . $3m + 19 = 316$ $m =$ _____

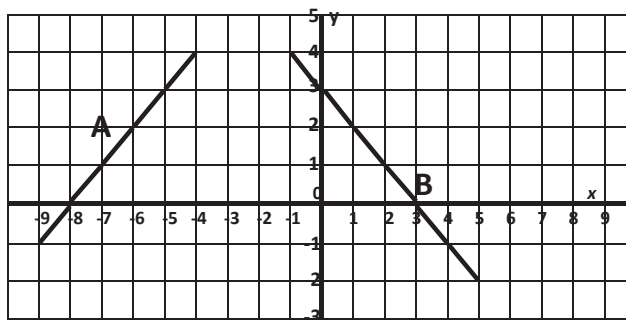
2. Solve for w . $\frac{w}{6} = 12$ $w =$ _____

3. What type of line has no slope? _____

Directions: Use the slope formula to determine the slope of lines that contain the given points.

4. $(5, 4)$ and $(-5, -4)$ Slope: _____ $m = \frac{y_1 - y_2}{x_1 - x_2}$

5. $(-2, 6)$ and $(6, -2)$ Slope: _____



Directions: Determine the equation that defines the lines on the coordinate grid.

6. Which equation defines line A on the coordinate grid?

A. $x = y - 8$

B. $x = 8 - y$

C. $x = y + 8$

7. Which equation defines line B on the coordinate grid?

A. $y = x + 3$

B. $y = -x + 3$

C. $x = -y + 3$

Sample Performance Task (DOK 3)

Formative assessments that build on earlier content knowledge and acquired skills. Performance tasks are strategically placed to enhance learning as students apply their knowledge and skills.

Many standards are assessed at this level of rigor on state assessments.

Standards Plus® Intervention Mathematics – Grade 8
Expressions & Equations Performance Task #A4

The **slope of a line** tells you how the y value changes as the x value changes.

The comparison of x to y is called a ratio.

You can find the slope of a line if you know two of the points on the line.

Look at the table:

$x = y - 4$			
(x_1, y_1)	$x_1 = 3$	$y_1 = 7$	$(3, 7)$
(x_2, y_2)	$x_2 = 1$	$y_2 = 5$	$(1, 5)$

It shows two coordinate pairs for the line $x = y - 4$.

If the value of x is 3, the value of y is 7.

If the value of x is 1, the value of y is 5.

To find the slope of this line, we use the formula: $\text{Slope} = \frac{y_1 - y_2}{x_1 - x_2}$.

$$\text{Slope} = \frac{5 - 7}{1 - 3} = \frac{-2}{-2} = 1$$



What Educators Say About Standards Plus Intervention...



"Our school ordered the Standards Plus Intervention Materials. We have used it for re-teaching in small groups, after-school intervention groups, English Learner Support groups and Intervention groups during the school day.

I love these materials because they offer re-teaching guidance to help all students (even struggling students) obtain mastery. Many of the intervention students took off academically. Several are on the Honor Roll as 6th and 7th graders and when asked the students believe Standards Plus Intervention was the reason. Everyone agrees Standards Plus is the simple-to-use missing piece that helped guide all our students to better learning.

Thank you Standards Plus for making such a focused well designed, easy to teach program that keeps our teachers and students focused on the standards."

- Academic Coach/Literacy Specialist

Lemonwood Elementary, Oxnard School District



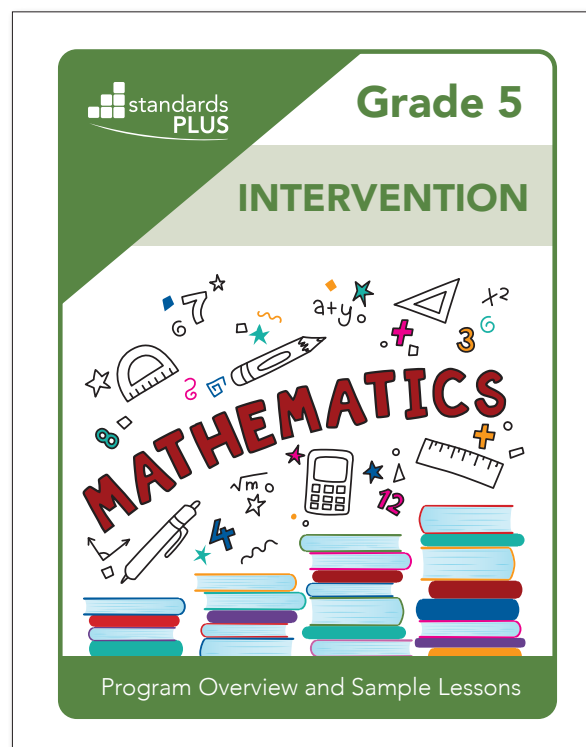
"The 140 teachers using Standards Plus Intervention in our district program are very happy with the materials. We also appreciate all of the attention Standards Plus has given our district over the years. Our students will be the ones who benefit."

- Coordinator of Educational Options

Ceres USD



All Standards Plus purchases include live online teacher training to ensure a successful implementation.



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