2023 - 2024
Mr. Nihart

11/12/2023 - 11/18/2023

Monday 11/13/2023

7th Grade

1.9 - Direct Variation

Learning Target

Students will be able to solve problems using direct variation (y = kx).

Standards

7.RP.2 Recognize and represent proportional relationships between quantities.

7.RP.2c Represent proportional relationships by equations. For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as t = pn.

Instruction

Warm Up: #44
Vocab: direct variation, constant of proportionality
- more practice problems on how to find the constant and how to write equations using 1.9 Go Formative
- the first half of the Go Formative is class practice (use teacher paced)
- second half of the Go Formative students will complete for homework

Tuesday 11/14/2023

7th Grade

1.9 - Direct Variation

Learning Target

Students will be able to solve problems using direct variation (y = kx).

Standards

7.RP.2 Recognize and represent proportional relationships between quantities.

7.RP.2c Represent proportional relationships by equations. For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as t = pn.

Instruction

Warm Up: #45
Vocab: direct variation, constant of proportionality
- last day of direct variation
- students partner up and work on 1.9 Scavenger Hunt

Assessment

Direct Variation Scavenger Hunt

8th Grade

3.4 - Slope Intercept Form

Learning Target

Wednesday 11/15/2023

7th Grade

Ch. 1 Review Day

Instruction

Warm Up: #46
Vocab: None
1st Period:
- students will challenge themselves with the Cruise Line Escape Room
- the escape room has the students reviewing solving proportions as well as working with direct variation
- if students finish early they are to take the self-check Ch. 1 Review posted on McGraw Hill

Assessment

Cruise Line Escape Room

8th Grade

3.4 - Slope Intercept Form

Learning Target

Students will be able to graph and write equations in slope-intercept form.

Standards

8.EE.6 Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation y = mx for a line through the origin and the equation y =

Thursday 11/16/2023

7th Grade

Ch. 1 Test

Instruction

Warm Up: None
Vocab: None
- Test forms 1A, 2A, and 3A
- if finished other homework

Assessment

Ch. 1 Test

8th Grade

3.6 - Writing Linear Equations (sub)

Learning Target

Students will be able to write an equation in slope-intercept form when given: one point and slope - or - two ordered pairs.

Standards

8.EE.6 Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation y = mx for a line through the origin and the equation y = mx + b for a line intercepting the vertical axis at b.

Instruction

Warm Up: #48 - Talk About It Thursday

Friday 11/17/2023

No School Day

No School Day

- If Extra Time - Kahoot: first 6 problems about direct variation, last 14 review questions for Ch. 1

Assessment

1.9 Direct Variation Go Formative

8th Grade

3.4 - Slope Intercept Form

Learning Target

Students will be able to graph and write equations in slope-intercept form.

Standards

8.EE.6 Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation y = mx for a line through the origin and the equation y = mx + b for a line intercepting the vertical axis at b.

Instruction

Warm Up: #45
Vocab: slope-intercept form (y = mx+b)
- walk through flipchart 3.4 Extra Practice
- practice real world scenarios where students must write an equation in y = Mx+b, interpret the slope and y-intercept, use equations to solve problems
- take 3.1 - 3.4 Quiz

Students will be able to graph and write equations in slope-intercept form.

Standards

8.EE.6 Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation y = mx for a line through the origin and the equation y = mx + b for a line intercepting the vertical axis at b.

Instruction

Warm Up: #46
Vocab: slope-intercept form (y = mx+b)
- review how to write equations in slope-intercept form, what each part of the expression represents, and ask if there are any questions the students have.
- Practice Quizizz that will have them practice more with the slope-intercept form. The Quizizz will have students practicing:
  - Writing a linear expression when given a graph.
  - Writing a linear expression for a real world scenario.
  - Using an expression in slope-intercept form to find ordered pairs.

Assessment

None

Attachments

mx + b for a line intercepting the vertical axis at b.

Instruction

Warm Up: #47
Vocab: slope-intercept form (y=max+b)
- Slope Intercept Form Quizizz final practice
- 21 questions
- grade into the grade book (allow redemption questions)

Assessment

Quizizz Game

Vocab: standard form, slope-intercept form, y-intercept, slope
- assign students the 3.6 EDPuzzle that will teach the students: (1.) converting equations from standard form to slope-intercept form, (2.) writing expressions when given a slope and one point, (3.) writing expressions when given two points, (4.) writing expressions for real-world scenarios
- assign and post notes with examples so the students can follow along
- start on 3.6 Go Formative (make instant check so students can receive instant feedback while working with the guest teacher)

Assessment

3.6 Go Formative (due Tuesday)

- Finish Diamond Heist Escape Room

Assessment

Finish Diamond Heist Escape Room

Stained Glass Window Activity.docx