

Ratios and Proportional Relationships

7th Grade Common Core

Unit 1 Term 1

7.RP.A.1

7.RP.A.2

7.RP.A.2a

7.RP.A.2b

7.RP.A.2d

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Learn Zillion Lessons
Page 1
(7.RP.A.1)

Calculate A Unit Rate With Two Fractions Using Division

Analyze A Situation Using A Rate Table

Approximate Unit Rates From Verbal Descriptions

Find Unit Rates In Situations Involving Fractions

Find The Best Deal By Comparing Unit Rates

Understand Unit Rates Using Fractional Rate

Determine Unit Rates Using Pictures

Determine Unit Rates Using A Table

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Page 2

(7.RP.A.2)

Graph a Proportional Relationship Using a Table

Identify Proportional Relationships By Examining the Origin

Quantify the Relationship of Two Proportional Measures

Represent Decimal Values to the Thousandths Using Base Ten Blocks

Write Decimals in Expanded Form

Identifying Proportional Relationships by Examining a Graph

Describe the Relationship Between Measures By Examining a Graph

Determine the Unit Rate of a Proportional Relationship Using a Graph

Read and Write Decimals to the Thousandths Using a Place Value Chart

Students	Pencils
0	0
1	3
2	6
3	9
4	12

There are 3 pencils for every student.

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(7.RP.A.2a)

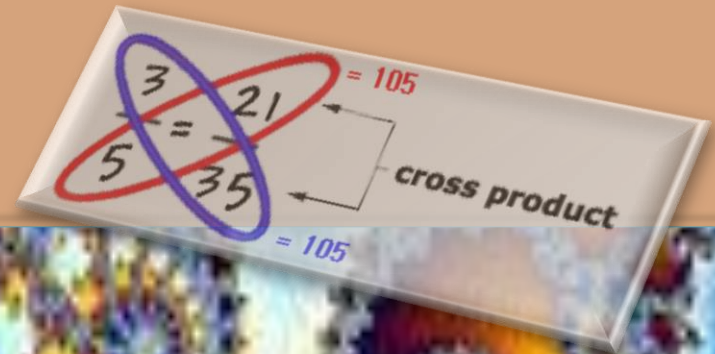
Analyze a Table to Determine
Find Proportional Relationships

Determine if Two Rates are
Equivalent by Dividing

Determine Whether
2-dimensional Shapes
are Similar

Determine Whether
Two Ratios are Equivalent

Determine if Two Rates are
Equivalent by Graphing



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Page 4
(7.RP.A.2b)

Understand Rates as Special Types of Ratios

Identify Rates From Verbal Descriptions

Identify Unit Rates Using Equations

Identify the Constant of Proportionality in Ratio Tables

Identify the Constant of Proportionality in Graphs

Write an Equation That Expresses the Relationship between Two Proportional Quantities

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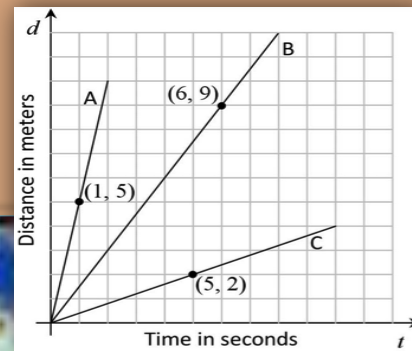
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(7.RP.A.2c)

Write an Equation that Represents a Proportional Relationship Between Total Cost and Number of Items

Write an Equation that Expresses the Relationship Between Distance and Time

Determine the Best Deal by Comparing Equations



Learn Zillion Lessons
Page 6
(7.RP.A.2d)

Describe the Relationship
Between Measures
By Examining a Graph

Quantify the Relationship of
Two Proportional Measures

Determine the Unit Rate of a
Proportional Relationship
Using a Graph

Graph a Proportional
Relationship Using a Table

Identifying Proportional
Relationships by
Examining a Graph

Identify Proportional
Relationships by
Examining the Origin

KHAN Academy Video Lessons

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7.RP.A.1

Rate Problem Using Fractions

7.RP.A.1

Finding Average Speed or Rate

7.RP.A.1

Unit Cost Problem Using Fractions

7.RP.A.1

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7.RP.A.2 through 7.RP.A.2a-d

Analyzing and Identifying Proportional Relationships

Analyzing and Identifying Proportional Relationships

Writing Proportions

Analyzing Proportional Relationships From a Table

Constructing Equations From Proportions to Solve Problems

Analyzing Proportional Relationships in a Graph

Constructing an Equation for a Proportional Relationship

Solve a Proportion with Unknown Variable Word Problem

Comparing Proportional Relationships

Solve a Proportion with Unknown Variable

Multiplication Property of Equality to Solve Proportions

$$\frac{9}{15} = \frac{x}{5}$$
$$5 \cdot \frac{9}{15} = \frac{x}{5} \cdot 5$$
$$\frac{45}{15} = x$$

$x = 3$

Check It

$$\frac{9}{15} = \frac{3}{5}$$
$$9 \cdot 5 = 15 \cdot 3$$
$$45 = 45 \checkmark$$

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Miscellaneous Video Lessons

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[Spy Guys: Ratios](#)

[Rate/Unit Rate](#)
[Word Problems](#)

[Ratio and Proportion](#)

[Unit Rate Word Problems](#)

[Ratios and Unit Rates](#)
[\(7.RP.A.1\)](#)

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[Determine Proportional](#)
[Relationships](#)

[Finding Unit Rates by](#)
[Simplifying Complex Fractions](#)

[Proportional Relationships](#)
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Unit Rate
(7.RP.A.2b)

Finding Constant of
Proportionality in a Table

Constant of Proportionality

Represent Proportional
Relationships as Equations

Constructing an Equation For a
Proportional Relationship

Representing Proportional
Relationships with Equations

Analyzing and Identifying
Proportional Relationships
Example 1

Analyzing and Identifying
Proportional Relationships
Example 2

Analyzing and Identifying
Proportional Relationships
Example 3

Comparing Proportional
Relationships

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[Graphing Proportional Relationships
Example 1](#)

[Graphing Proportional Relationships
Example 2](#)

[Interpreting Graphs of
Proportional Relationships](#)

[Proportions and Music
in the Real World](#)

[Real Life Math
Ratios, Proportions,
and Basketball - Algebra](#)

[Ratios and Proportions](#)

[Beyond a Shadow of a Doubt](#)

[Ratio and Proportion
With Mr. Tendilla](#)

[Proportional Relationships
\(PBS\)](#)

[Ratios and Proportions](#)

[Ratios, Proportions,
&
the Wright Brothers](#)

[Math Antics
Ratios and Rates](#)

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Practice Page 1

Bianca's Painting Party
(PBS)

Determine the Number
Based on the Ratio
(AAA Math)

Holes

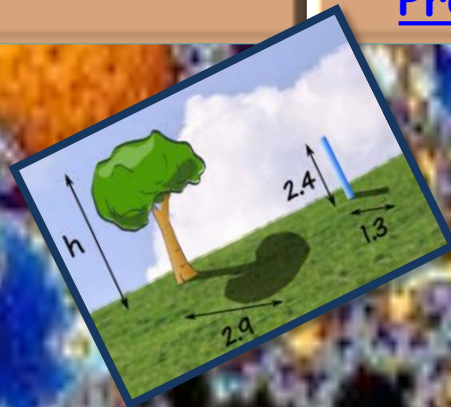
Practice with Ratios

Comparing With Ratios
and Rates
(Self-check Quiz-Glencoe Impact)

Dirt Bike Proportions

Percentages and Proportions
Quiz

Constructing and Comparing
Proportional Relationships



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Practice Page 2

Rate Problems 1

Ratio and Proportion
Quiz

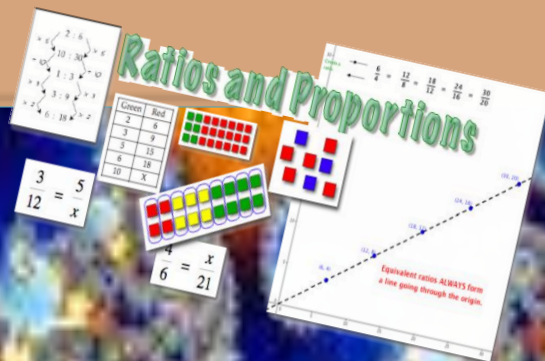
Summary
of the Concept of Ratio

Ratio and Proportion
Entry Level Quiz

Simplifying Ratios

Using Proportions Self
Check Quiz
(Glencoe)

Writing Proportions



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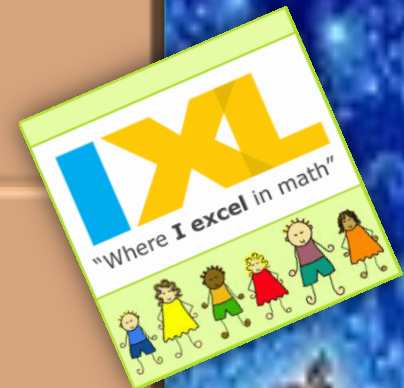
IXL Practice Page

IXL:
Understanding Ratios
J.1

IXL:
Unit Rates
J.5

IXL:
Unit Prices
L.3

IXL:
Unit Prices with Unit Conversions
L.4



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Interactive Games

[Dirt Bike Proportions](#)

[Dunk Tank](#)

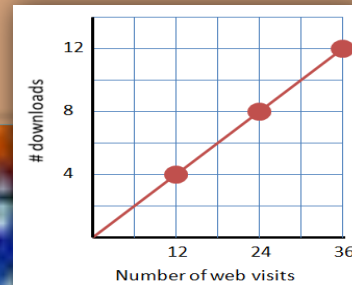
[Ratio Blaster](#)

[Ratio Martian](#)

[Ratio Stadium](#)

[Sleuths on the Loose](#)

[Solving Proportions](#)



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Songs and Videos

Page 1

Donald Duck in Math Land
(9:16 min.)

Math Snacks:
Ratey the Math Cat

PBS Math Club:
Baking Beet Cookies
& Proportions

Proportions Song
(Kesha-Crazy Kids)

Proportions Rock Song

Math Snacks:Bad Date

Math Song
(Ratios)
(KISS I was Made For Loving You)

Proportions-
Poker Face

Proportion Rap!
Math is Fun with Mrs. Turman!
Teach Me

Math
Song(s)

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Songs and Videos

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Proportions

Ratios and Proportions Movie

Solvin' Proportions (Parody to Look at me now, Making Paper)

The Proportion Rap!

6-5 Race Cars with Ratio and Proportion





Ratios and Proportions - Coach Buchanan's Channel

Rittman 7th Graders Sing the Proportion Song











Solving Proportions Song

"The Ratio" The GTGs, Georgia Tech

RHYTHM MATH

 = 2 beats	 = 1 beat
 = 1 beat	 = 1/2 beat

HOW LONG ARE THESE NOTES (count the beats)

-  _____
-  _____
-  _____
-  _____
-  _____
-  _____
-  _____
-  _____
-  _____
-  _____

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Ratios and Proportions in the Real World

Basic Career Math Skills -
Health Occupations

Jobs That Use
Ratio and Proportion
(XP Math)

Math nMotion -
Ratio and Proportion

Grocery Shopping -
Using Rates

Math In Real Life - Technial
Designer for Baby Clothing
Company

Maths in Real Life

Exploring Rate, Ratio and
Proportion



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