**﻿Unit 1: Operations with Rational Number**

1.1 The Number Line - [Video 1,](https://www.youtube.com/watch?v=45Caq0k-CvY&feature=youtu.be) [Video 2](https://www.youtube.com/watch?v=2DecO7rkd_k)

1.2 Ordering & Comparing Numbers; Opposites & Absolute Value

1.3 Assigning Integers to Situations

1.4 Adding Integers - [Video](https://www.youtube.com/watch?v=xh4ksJDcbJ4)

1.5 Adding Rational Numbers - [Video](https://www.youtube.com/watch?v=ywckGoBbiJY&t=14s)

1.6 Subtracting Integers - [Video](https://www.youtube.com/watch?v=VjDAO4mKsWs)

1.7A Subtracting Rational Numbers - [Video](https://www.youtube.com/watch?v=ywckGoBbiJY&t=14s)

1.7B Temperature Word Problems - [Video](https://www.youtube.com/watch?v=jFyTjgRGq7o)

1.7C Calculating Bank Balances - [Video](https://www.youtube.com/watch?v=cC_5hcSP0tM)

1.8 Multiplying Integers - [Video](https://www.youtube.com/watch?v=JrixfzWZ3ps)

1.9 Multiplying Rational Numbers - [Video Playlist](https://youtube.com/playlist?list=PLWsW-2h0j4jMbbg5xnF1AXhiCBl-BpAFc)

1.10 Dividing Integers - [Video](https://www.youtube.com/watch?v=JrixfzWZ3ps)

1.11 Dividing Rational Numbers - [Video Playlist](https://youtube.com/playlist?list=PLWsW-2h0j4jOi4Anu-KsbYLptbB1Hjh1U)

1.12 Evaluating Complex Fractions - [Video1,](https://www.youtube.com/watch?v=OZ-XR8mF1xI&amp;t=4s) [Video 2](https://www.youtube.com/watch?v=uQ0fNVeD5bw&amp;t=48s)

1.13 Converting Between Fractions & Decimals -

1.14 Using Long Division to Convert from Fractions to Decimals - [﻿﻿Long Division](https://www.youtube.com/watch?v=WYUyHlwd51w)

***Unit Order of Study***

2.1 Evaluating Algebraic Expressions

2.2 Combining Like Terms

2.3 The Distributive Property - [Videos](https://youtube.com/playlist?list=PLWsW-2h0j4jP28hX7ZJZNPsAYDv_kQfU6)

2.4 Adding and Subtracting Polynomials - [Videos](https://youtube.com/playlist?list=PLWsW-2h0j4jPCiux6iHnzo_uVAmAKSdse)

2.5 Using the GCF to Factor - [Videos](https://youtube.com/playlist?list=PLWsW-2h0j4jP9lefF4qEfhIRqRw_LctgL)

2.6 Perimeter Word Problems - [Videos](https://youtube.com/playlist?list=PLWsW-2h0j4jNxNN7dTMF3QJd2a-gKjhXx)

2.7 Area Word Problems - [Videos](https://youtube.com/playlist?list=PLWsW-2h0j4jOhj4hX8hEXoMKWQhAHhCt3)

**Unit 3: Equations and Inequalities**

3.1 Solving One-Step Equations - [Videos](https://youtube.com/playlist?list=PLWsW-2h0j4jMIyxSdXz0At7tzKXAxWnXQ)

3.2 Solving Two-Step Equations - [Videos](https://youtube.com/playlist?list=PLWsW-2h0j4jMIyxSdXz0At7tzKXAxWnXQ)

3.3 Using the Distributive Property to Solve Equations - [Videos](https://youtube.com/playlist?list=PLWsW-2h0j4jMIyxSdXz0At7tzKXAxWnXQ)

3.4 Writing and Graphing Inequalities - [Videos](https://youtube.com/playlist?list=PLWsW-2h0j4jMn7nUPn7hMSNeK53DCos7K)

3.5 Solving One-Step Inequalities - [Videos](https://youtube.com/playlist?list=PLWsW-2h0j4jMn7nUPn7hMSNeK53DCos7K)

3.5B Calculating Maximum Amounts - [Video](https://www.youtube.com/watch?v=srFK99uIzes)

3.6 Solving Two-Step Inequalities including Distribution - [Videos](https://youtube.com/playlist?list=PLWsW-2h0j4jMn7nUPn7hMSNeK53DCos7K)

3.7 Applications

**Unit 4: Proportional Relationships**

4.1 Solving Proportions - [Video](https://www.youtube.com/watch?v=xzhVsf_uqMk&t=473s)

4.2 Using Proportions to Solve Word Problems - [Video](https://www.youtube.com/watch?v=W4jDGfQ7ncQ&list=PLWsW-2h0j4jPPR54nKWq817IdGLeD44vD&index=2)

4.3 Using Proportions to Solve Word Problems Involving Scale Drawing - [Video](https://www.youtube.com/watch?v=65NNqghwrtU&t=10s)

4.4A Unit Rates - [Video](https://www.youtube.com/watch?v=j7_AvnRS1HI&t=77s)

4.4B Calculating the Cost of One - [Video](https://www.youtube.com/watch?v=5pvnqNSGHoE)

4.5 Unit Rates Involving Complex Fractions - [Video](https://www.youtube.com/watch?v=OZ-XR8mF1xI&t=2s)

4.6 Comparing Unit Rates

4.7 Discovering the Graph of a Proportional Relationship - [Video](https://www.youtube.com/watch?v=CC27is32JKM&t=15s)

4.8 Identifying the Constant of Proportionality from a Graph - [Video 1](https://www.youtube.com/watch?v=xCg4rZA8Rl8&t=13s), [Video 2](https://www.youtube.com/watch?v=KcT6jW8JyKs)

4.9 Identifying the Constant of Proportionality from a Table - [Video](https://www.youtube.com/watch?v=nuWb1YPd7GM)

4.10 Represent Proportional Relationships by Equations - [Video 1](https://www.youtube.com/watch?v=U86yHTR2PFA&list=PLWsW-2h0j4jPPR54nKWq817IdGLeD44vD&index=17&t=32s)

Unit 5 Percent Applications

5.1 Tax and Total Price - [Video](https://www.youtube.com/watch?v=nJlnNCvaIMo)

5.2 Discount and Sale Price - [Video](https://www.youtube.com/watch?v=1lLDvM-HsFI&t=347s)

5.3 Gratuity - [Video](https://www.youtube.com/watch?v=CzqjbErBoYA)

5.4 Commission - [Video](https://www.youtube.com/watch?v=dF72uJ2x-Vk)

5.5 Simple Interest - [Video](https://www.youtube.com/watch?v=v6rxJO6M0Jc&t=5s)

5.6 Percent Mark-ups - [Video](https://www.youtube.com/watch?v=I4W2q8mI838)

5.7 Finding the Percent of Change - [Video](https://www.youtube.com/watch?v=txJNFCVsh2Q)

5.8 Using Percent's to Write Expressions

5.9 Multi-Step Percent Problems

Unit 6 - Probability and Statistics

6.1 Tree Diagrams & Counting Principle - [Video](https://www.youtube.com/watch?v=hivGwAQDeaQ)

6.2 Sample Space & Counting Principle - [Video](https://www.youtube.com/watch?v=jeVHKOdlHfE&t=10s)

6.3 Simple Probability & Describing the Likelihood of an Event - [Video](https://www.youtube.com/watch?v=GoBvvkf9x4A&t=89s)

6.4 Probability an Event Does NOT Occur - [Video](https://www.youtube.com/watch?v=jeVHKOdlHfE&t=10s)

6.5 Calculating Experimental Probability

6.6 Making Predictions

Unit 7 Rational Word Problems

Rational Number Word Problems

7.1 Calculating Total Earnings - [Video](https://www.youtube.com/watch?v=y2ZIe2VoBsQ&t=26s)

7.2 Calculating Total from a Menu - [Video](https://www.youtube.com/watch?v=RSSx6HZBQoU&t=9s)

7.3 Calculating Amount of Change - [Video](https://www.youtube.com/watch?v=lGTxIVUqscs)

7.4 Mixed Word Problems

Unit 8 - Geometry

8.1 Radius, Diameter and Circumference - [Video](https://www.youtube.com/watch?v=2P3rUJ-THjA&t=2s) [Video 2](https://www.youtube.com/watch?v=bnIEeRCvcB0)

8.2 Area of a Circle - [Video](https://www.youtube.com/watch?v=bnIEeRCvcB0)

8.3 Circle Word Problems