## Introduction to Mth ol

In this course we get used to working with numbers. These numbers can be positive or negative, whole numbers or fractions, decraels and percents. We'll look at applications and also start some algebra at the end. Chapter 1. 0 1 2 3 whole numbers Operations +, -, x, ÷ examples: 10 - 4 + 5 =8° = 0:8 = 8:0 = Find missing side lengths: 3 3 ? Chapter 2. 0 negative numbers -3 + (-9) =-3 - (-9) =(-3)(-9) =

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 $\frac{1}{3}$   $\frac{1}{2}$   $2\frac{1}{4} = \frac{9}{4}$  $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{9}{4}$   $\frac{1}{4}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{9}{4}$ Chapter 3 -1 0 1 Fractions and mixed numbers 2+3 = 2 ? NO  $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$ need LCD (LCM of 2,3 is 6) More examples LCM of 10 and 6 is 30 GCF of 10 and 6 is 2 Y can use to cancel: 6 = 3 Chapter 4 Decimels are another way to represent fractions  $\frac{7}{10} = 0.7$   $\frac{3}{1000} = 0.003$ = 0.125 why? +, -, ×, ÷  $12.5\% = \frac{125}{1000} = \frac{1}{8}$ percents

Chapter 5 Can also think of Fractions as ratios, comparing two numbers. 3 = 6 is called a proportion If one of the numbers is missing, can you find it 3= 6 Applications, word problems. Chep 6. In algebra we use X or Y to represent a number. Examples · Compute X3-3X+7 if X=-2 2(3+x) = -5x + 20· Solve for X = The first computes to 5 and in the second X must be Z.