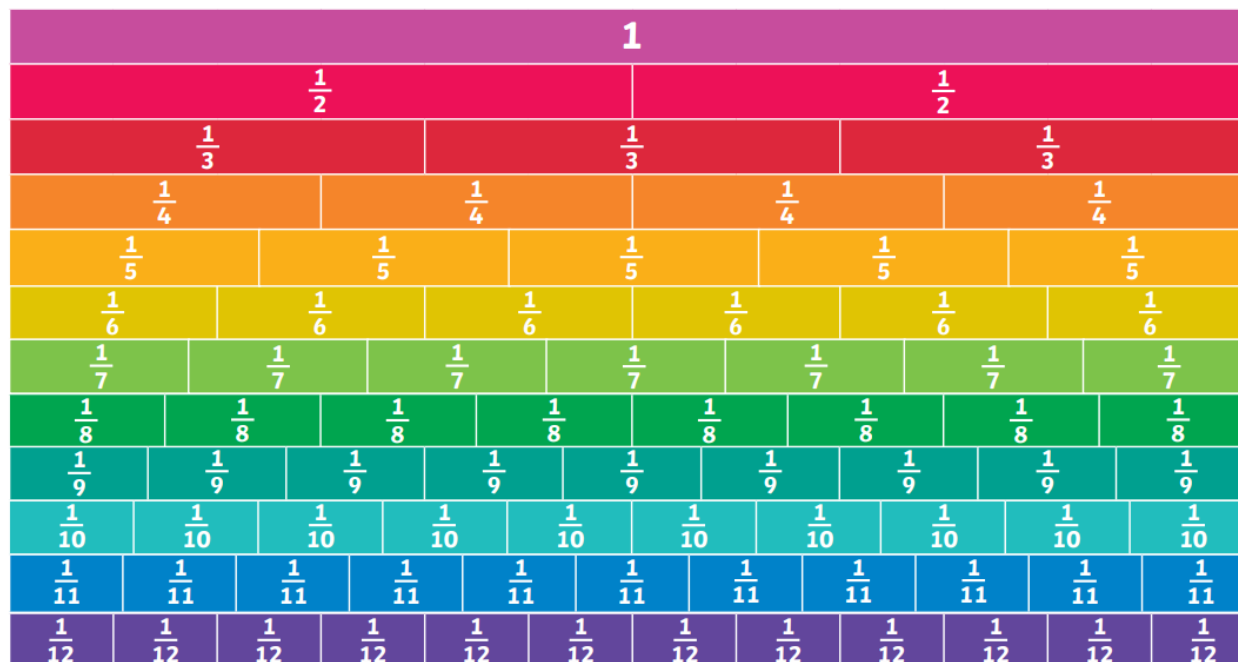


Learning Objectives

- ❖ To recognise and show, using diagrams, families of common equivalent fractions
- ❖ To count up and down in hundredths
- ❖ To solve problems involving increasingly harder fractions
- ❖ To add and subtract fractions with the same denominator
- ❖ To recognise and write decimal equivalents of any number of tenths or hundredths
- ❖ To recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$
- ❖ To find the effect of dividing a one- or two-digit number by 10 and 100
- ❖ To round decimals with one decimal place to the nearest whole number
- ❖ To compare numbers with the same number of decimal places up to two decimal places
- ❖ To solve simple measure and money problems involving fractions and decimals to two decimal places.



Fractions of Quantities

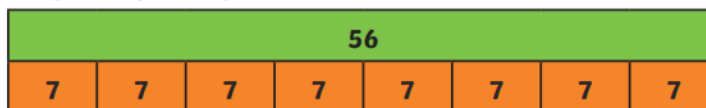
To find a fraction of a number, divide by the denominator and multiply by numerator.

To find quarters of 20:



$$\frac{1}{4} \text{ of } 20 = 5 \quad \frac{2}{4} \text{ of } 20 = 10 \quad \frac{3}{4} \text{ of } 20 = 15 \quad \frac{4}{4} \text{ of } 20 = 20$$

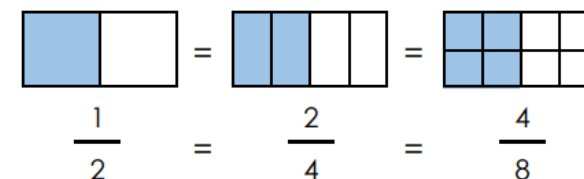
To find eighths of 56:



$$\begin{array}{llll} \frac{1}{8} \text{ of } 56 = 7 & \frac{2}{8} \text{ of } 56 = 14 & \frac{3}{8} \text{ of } 56 = 21 & \frac{4}{8} \text{ of } 56 = 28 \\ \frac{5}{8} \text{ of } 56 = 35 & \frac{6}{8} \text{ of } 56 = 42 & \frac{7}{8} \text{ of } 56 = 49 & \frac{8}{8} \text{ of } 56 = 56 \end{array}$$

Equivalent Fractions

Equivalent fractions have different denominators and numerators but are the same amount.



Key Vocabulary

Fraction
 Numerator
 Denominator
 Equivalent
 Unit fraction
 Hundredths
 Tenths
 Quantities
 Whole
 Halves
 Thirds
 Quarters
 Fifths
 Sixths
 Sevenths
 Eighths
 Ninths
 Tenths
 Elevenths
 Twelfths
 Decimal
 Decimal place
 Round
 Compare

Fraction and Decimal Equivalents

$$\frac{1}{2} = 0.5$$

$$\frac{1}{4} = 0.25$$

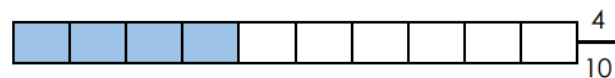
$$\frac{3}{4} = 0.75$$

$$\frac{1}{10} = 0.1$$

Adding and Subtracting Fractions

Add Fractions

When adding fractions with the same denominator, the denominator does not change. The numerators only are added.

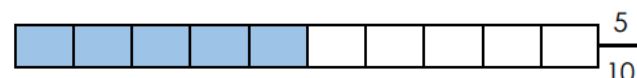


$$\frac{5}{10} + \frac{4}{10} = \frac{9}{10}$$

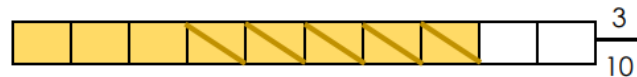


Subtract Fractions

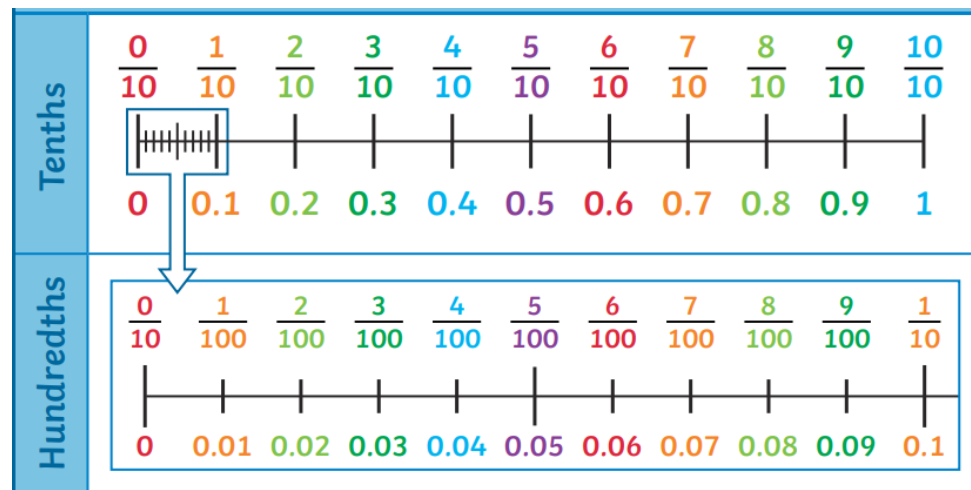
When subtracting fractions with the same denominator, the denominator does not change. The numerators only are subtracted.



$$\frac{8}{10} - \frac{5}{10} = \frac{3}{10}$$



Decimals



What I Should Already Know:

- ❖ How to count up and down in tenths
- ❖ How to recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
- ❖ How to recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
- ❖ How to recognise and show, using diagrams, equivalent fractions with small denominators
- ❖ How to add and subtract fractions with the same denominator within one whole [for example, $7/5 + 7/1 = 76/5$]
- ❖ How to compare and order unit fractions, and fractions with the same denominators
- ❖ How to solve problems that involve all of the above.