

KS3 Unit 40 Mixed Fractions

Topic/Skill	Definition/Tips	Example
1. Mixed Number	A number formed of both an integer part and a fraction part .	$3\frac{2}{5}$ is an example of a mixed number.
2. Adding or Subtracting Fractions	Change to an improper fraction first. Find the LCM of the denominators to find a common denominator. Use equivalent fractions to change each fraction to the common denominator . Then just add or subtract the numerators and keep the denominator the same .	$2\frac{2}{3} + 3\frac{4}{5}$ $= \frac{8}{3} + \frac{19}{5}$ <p>Multiples of 3: 3, 6, 9, 12, 15.. Multiples of 5: 5, 10, 15.. LCM of 3 and 5 = 15</p> $\frac{8}{3} = \frac{40}{15}$ $\frac{19}{5} = \frac{57}{15}$ $\frac{40}{15} + \frac{57}{15} = \frac{97}{15} = 6\frac{7}{15}$
3. Multiplying Fractions	Change to an improper fraction first. Multiply the numerators together and multiply the denominators together.	$1\frac{3}{8} \times 3\frac{2}{9} = \frac{11}{8} \times \frac{29}{9} = \frac{319}{72} = 4\frac{31}{72}$
4. Dividing Fractions	Change to an improper fraction first. 'Keep it, Flip it, Change it – KFC' Keep the first fraction the same Flip the second fraction upside down Change the divide to a multiply Multiply by the reciprocal of the second fraction.	$4\frac{3}{4} \div \frac{5}{6} = \frac{19}{4} \times \frac{6}{5} = \frac{114}{20} = 5\frac{7}{10}$