

Kumon Mathematics Program

Level E

**Addition, Subtraction,
Multiplication and
Division of Fractions**

Student Name: _____

Starting Date: _____

Completion Date: Your Goal _____

Jan Apr July Oct
Feb May Aug Nov
Mar June Sep Dec

The goal is based upon your individual abilities. It takes into account the number of pages you are currently able to complete per day and the number of repetitions necessary to ensure mastery of the worksheets.

Goals of Level E

In Level E, you will learn how to add, subtract, multiply and divide fractions confidently. This level aims to enable you to follow and apply examples when new focuses are introduced.

Contents of Level E

Worksheet Number	Section	Worksheet Number	Section
1 - 10	Review up to D	141 - 160	Multiplication of Fractions
11 - 100	Addition of Fractions	161 - 170	Division of Fractions
101 - 130	Subtraction of Fractions	171 - 180	Multiplication and Division of Fractions
131 - 140	Addition and Subtraction of Fractions	181 - 200	Four Operations of 2 Fractions

Features of Level E

E21a
Addition of Fractions 2

KUMON E 21

100% 100% 100% 100% 100% 100%

Name: _____
Date: ____/____/____
Time: ____:____:____

• Add.

Ex $\frac{7}{10} + \frac{9}{10} = \frac{16}{10} = 1\frac{6}{10} = 1\frac{3}{5}$

(1) $\frac{5}{6} + \frac{5}{6} = 1\frac{\square}{6} = 1\frac{\square}{3}$

(2) $\frac{5}{8} + \frac{5}{8} = 1\frac{\square}{8} = 1\frac{\square}{4}$

(3) $\frac{7}{9} + \frac{7}{9} =$

(4) $\frac{4}{9} + \frac{5}{9} =$

(5) $\frac{8}{9} + \frac{7}{9} =$

(6) $\frac{3}{10} + \frac{9}{10} =$

(7) $\frac{4}{11} + \frac{7}{11} =$

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This level introduces the Least Common Multiple (LCM) used in adding and subtracting fractions up to Worksheet 140. Worksheet 141 introduces the multiplication of fractions; Worksheet 161 introduces the division of fractions.

You will begin the addition of fractions by adding fractions with the same denominator. As you progress, you will learn to add fractions by using the LCM. Subtracting fractions also requires finding the LCM.

The most important point when multiplying fractions is to reduce while calculating (as opposed to reducing after calculating). When dividing fractions, remember to invert the divisor and multiply.

E145a
Multiplication of Fractions 1

KUMON E 145

100% 100% 100% 100% 100% 100%

Name: _____
Date: ____/____/____
Time: ____:____:____

• Multiply

Ex $1\frac{3}{5} \times 4\frac{1}{2} = \frac{8}{5} \times \frac{9}{2} = \frac{36}{5} = 7\frac{1}{5}$

(1) $1\frac{3}{4} \times 2\frac{1}{2} =$

(2) $3\frac{1}{5} \times 1\frac{3}{4} =$

(3) $2\frac{1}{3} \times 2\frac{1}{4} =$

(4) $2\frac{1}{6} \times 1\frac{5}{7} =$

(5) $4\frac{1}{6} \times 1\frac{3}{5} =$

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In the final sets of this level, you will practice applying each of the four operations to fractions to ensure that you have mastered these operations.

Being able to follow the patterns set in the examples is an important element of Level E. Therefore, be sure to study the examples given before proceeding. Giving the answer in its lowest term should become second nature.

Instructor's Comments
