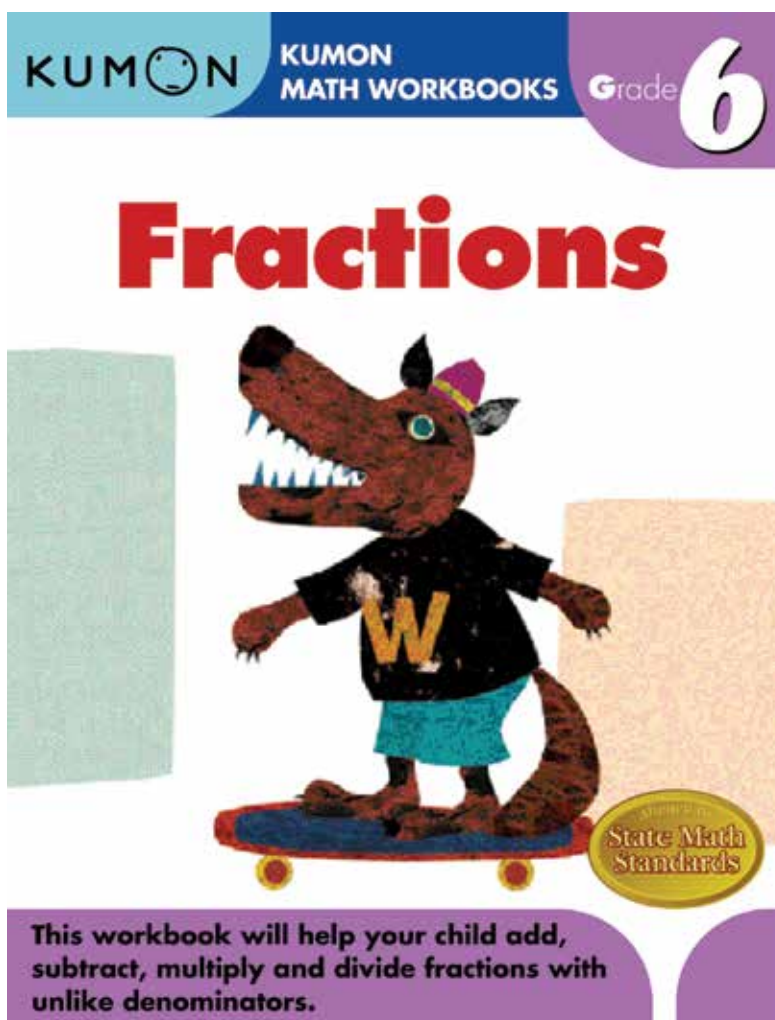


Kumon *Grade 6 Fractions* Workbook Educator's Guide

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Using Kumon Calculations Workbooks: General Guidance

Kumon Calculations Workbooks follow the Kumon Method, a proven learning system from Japan that has helped millions of children worldwide develop math skills without frustration.

You can use Kumon Calculations Workbooks to **introduce new math skills** or to **provide additional support** after/alongside another program. The table below shows benefits of each approach.

Using Kumon Workbooks to teach a new skill	Using Kumon Workbooks for additional support
<ul style="list-style-type: none">• Learn the new concept(s) using an efficient and targeted approach• Avoid development of misconceptions• Progress toward mastery of the relevant math facts and procedures• Improve your child's mental calculation abilities and their ability to learn independently	<ul style="list-style-type: none">• Refine and deepen understanding of the concept(s)• Solidify mastery of math facts and gain procedural fluency• Identify and correct misconceptions• Improve your child's mental calculation abilities and their ability to learn independently

Please note that **for the full benefit of the Kumon Method**, including personalized learning plans and individualized instruction, take the next step and contact a Kumon Learning Center near you. Visit www.kumon.com for more information about our Learning Centers.

Important Steps

For all Kumon Calculations Workbooks, please use the following steps for best results.

Timing
<ul style="list-style-type: none">• We recommend having your child complete about one section (2 pages) a day. This should include the answer check.• Each daily session is about 15 to 30 minutes. If your child is learning the skill for the first time, the learning session will be closer to 30 minutes.
Sequencing
<ul style="list-style-type: none">• Even if your child is reviewing material, have them start on page 1 and work through the book page by page. Similarly, they should always work problems on each page in order. For best results, do not skip any content. <p>Kumon Workbooks are designed so the student “learns through doing”; therefore, the sequence of pages and</p>

problems in each book is key to the instructional method and effectiveness.

Checking Answers and Moving On

- Checking and correcting answers is an essential part of the learning process. One approach is to have a parent or teacher mark the child's answers as either correct or incorrect. Then have the child correct the wrong answers.
- You may choose to require a perfect score before your child moves on the next section. If you use this approach, you can repeat each section as many times as you wish by erasing it and having your child redo it. Or, have your child write answers on a separate sheet.

Encourage Self-Learning

- One hallmark of the Kumon Method is the emphasis on learning through doing rather than passive absorption of information. This is why there is minimal direct explanation in the book; the understanding comes through working problems in sequence.
- Support your child in the self-learning process by allowing them to work independently on the problems, correct their answers, and reflect on their errors. We encourage you to ask questions to promote deeper engagement, but resist the urge to "just explain" what they should learn from the page.

For a daily plan and page-by-page guidance to support using Kumon *Grade 6 Fractions*, see the next page.

KUMON Grade 6 Fraction Workbook: Daily Guide

Using this guide

- Each daily session should last about 15 to 30 minutes.
- Fill in the Date column to keep track of your progress.

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Date	Book Section	PP.	Description	Educator Notes
Review				
	1	2-3	• Addition of Fractions	Encourage your child to work slowly and carefully. This section should serve as a review. If they have difficulty with these activities, conduct a review. You might consider using <i>Kumon Grade 5 Decimals & Fractions</i> to review.
	2	4-5	• Subtraction of Fractions	
	3	6-7	• Mixed Review	
TOPIC: Reduction				
	4	8-9	• Reduction by 2 and 3	On the first page, your child will be told which number to reduce by. On the second page, they will have to choose to reduce by 2 or 3. Ask them to think aloud as they solve and explain why they choose a 2 or a 3.
	5	10-11	• Reduction by 2, 3, 5, and 7	In this activity, they will also be asked to choose which number to reduce by. Again, ask them to explain their reasoning.
	6	12-13	• Reduction	In these activities, your child will be asked to simply reduce, and will need to choose which number to reduce by on their own. If they get stuck, ask them whether it makes sense to reduce by 2, 3, 5, or 7. If the numerator and denominator are divisible by more than one number, have them reduce by the larger number.
	7	14-15	• Reduction	Have your child practice describing each step out loud to help them internalize vocabulary like "factor."
	8	16-17	• Reduction and GCF	
	9	18-19	• Reduction and GCF	
TOPIC: Addition of Fractions				
	10	20-21	• Adding Fractions	In these activities, your child will be guided through the process of adding fractions by finding a common denominator. This language will be formally introduced in the next lesson.
	11	22-23	• Adding Fractions	
	12	24-25	• Least Common Multiple	Have your child practice describing each step out loud to help them internalize new terms.
	13	26-27	• Least Common Multiple	
	14	28-29	• Adding Fractions	Have your child complete these independently, explaining their process as they work.
	15	30-31	• Adding Fractions	
	16	32-33	• Greatest Common Factor	Have your child practice describing each step out loud to help them internalize new terms.
	17	34-35	• Adding Fractions	
	18	36-37	• Adding Fractions	
	19	38-39	• Adding Fractions	
TOPIC: Subtraction of Fractions				
	20	40-41	• Subtracting Fractions	These activities mirror the addition activities, but with subtraction. If your child struggles, have them return to lessons 12, 13, and 16 to practice before moving on.
	21	42-43	• Subtracting Fractions	
	22	44-45	• Subtracting Fractions	
	23	46-47	• Subtracting Fractions with Mixed Numbers	
	24	48-49	• Subtracting Fractions with Mixed Numbers	
TOPIC: Three Fractions				
	25	50-51	• Adding Three Fractions	In these activities, your child will add three fractions by finding the LCM of three numbers. They may need some extra practice and time as the numbers get larger, so encourage them to work slowly and carefully.
	26	52-53	• Adding Three Fractions	
TOPIC: Multiplication of Fractions				
	27	54-55	• Multiplication of Fractions	In the first few activities, these problems may feel a little easier as your child won't need to convert the fractions before multiplying. They will, however, have to reduce their solution, and the numbers may be larger. Encourage them to take their time solving and reduce as they go along, when applicable.
	28	56-57	• Multiplication of Fractions	
	29	58-59	• Multiplication of Fractions	
	30	60-61	• Multiplication of Fractions	
	31	62-63	• Multiplication of Fractions	
	32	64-65	• Multiplication of Fractions	
TOPIC: Division of Fractions				
	33	66-67	• Division of Fractions	These activities build on the multiplication section. If your child struggles with reducing while solving, or converting mixed numbers, have them review the multiplication section before moving on.
	34	68-69	• Division of Fractions	
	35	70-71	• Division of Fractions	
	36	72-73	• Division of Fractions	
	37	74-75	• Division of Fractions	
	38	76-77	• Division of Fractions	
TOPIC: Fractions and Decimals				

Date	Book Section	PP.	Description	Educator Notes
	39	78–79	• Converting Between Fractions and Decimals	If your child is stumped on how to convert a fraction into a decimal, guide them to understand that they can solve it by dividing the numerator by the denominator. For example, 1 divided by 2 is 0.5, so $1/2 = 0.5$.
	40	80–81	• Converting Between Fractions and Decimals	Here your child will multiply or divide after converting. Have them take their time solving each problem.
TOPIC: Three Fractions				
	41	82–83	• Multiplication and Division with Three Fractions	While these activities simply combine steps your child has already done, they are the most challenging problems in this book. Have them take their time, explain their reasoning aloud, and take their time solving each problem.
	42	84–85	• Mixed Calculations with Three Fractions	
Review				
	43	86–87	• Review	Have your child complete the review independently. If they struggle with any problem, return to the section to review the topic.