The Ultimate Step by Step Guide to Preparing for the MTEL Elementary Mathematics (68) Test

Test taker's #1 Choice

MTEL Elementary Mathematics (68) 2026

for Beginners

Reza Nazari

✓ Recommended by Test Prep Experts

MTEL ELEMENTARY MATHEMATICS (68) FOR BEGINNERS

The Ultimate Step by Step Guide to Preparing for the MTEL Elementary Mathematics (68) Test

By

Reza Nazari



About Effortless Math Education Inc.

Effortless Math Education operates the www.effortlessmath.com website, which prepares and publishes Test prep and Mathematics learning resources. Effortless Math authors' team strives to prepare and publish the best quality Mathematics learning resources to make learning Math easier for all. We Help Students Learn to Love Mathematics.

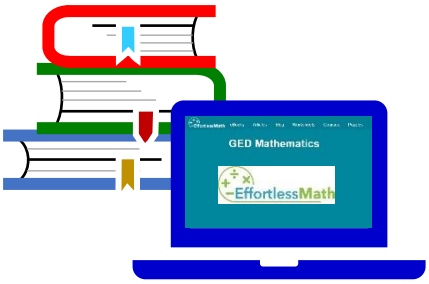
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Step 2: Choose Your Study Resources



There are numerous textbooks and online resources available for the MTEL Elementary Mathematics (68) test, and it may not be clear where to begin. Don't worry! This study guide provides everything you need to fully prepare for your MTEL Elementary Mathematics (68) test. In addition to the book content, you can also use Effortless Math's online resources. (video lessons, worksheets, formulas, etc.) On each page, there is a link (and a QR code) to an online webpage which provides a comprehensive review of the topic, step-by-step instruction, video tutorial, and numerous examples and exercises to help you fully understand the concept.

Simply visit EffortlessMath.com/MTEL to find your online MTEL Elementary Mathematics (68) resources.

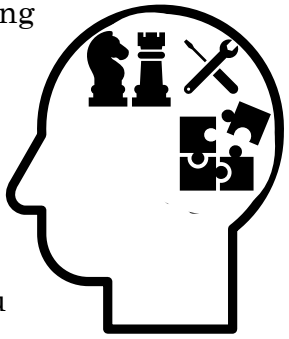
Step 3: Review, Learn, Practice



This MTEL Elementary Mathematics (68) study guide breaks down each subject into specific skills or content areas. For instance, the percent concept is separated into different topics–percent calculation, percent increase and decrease, percent problems, etc. Use this book to help you go over all key math concepts and topics on the MTEL Elementary Mathematics (68) test. As you read each chapter, take notes or highlight the concepts you would like to go over again in the future. If you're unfamiliar with a topic or something is difficult for you, do additional research on it. For each math topic, plenty of instructions, step-by-step guides, and examples are provided to ensure you get a good grasp of the material. You can also find video lessons on the Effortless Math website for each MTEL Elementary Mathematics (68) concept.

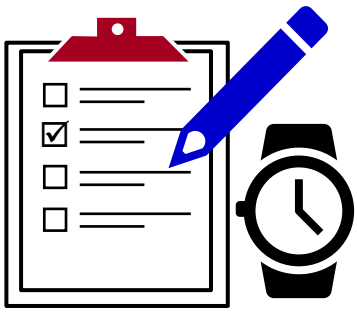
Quickly review the topics you do understand to get a brush-up of the material. Be sure to do the practice questions provided at the end of every chapter to measure your understanding of the concepts.

Step 4: Learn and Practice Test-taking Strategies



In the following sections, you will find important test-taking strategies and tips that can help you earn extra points. You'll learn how to think strategically and when to guess if you don't know the answer to a question. Using MTEL Elementary Mathematics (68) test-taking strategies and tips can help you raise your score and do well on the test. Apply test taking strategies on the practice tests to help you boost your confidence.

Step 5: Learn the MTEL Elementary Mathematics (68) Test Format and Take Practice Tests



The MTEL Elementary Mathematics (68) Test Review section provides information about the structure of the MTEL Elementary Mathematics (68) test. Read this section to learn more about the MTEL Elementary Mathematics (68) test structure, different test sections, the number of questions in each section, and the section time limits. When you have a prior understanding of the test format and different types of MTEL Elementary Mathematics (68) questions, you'll feel more confident when you take the actual exam.

Once you have read through the instructions and lessons and feel like you are ready to go – take advantage of both of the full-length MTEL Elementary Mathematics (68) practice tests available in this study guide. Use the practice tests to sharpen your skills and build confidence.

The MTEL Elementary Mathematics (68) practice tests offered at the end of the book are formatted similarly to the actual MTEL Elementary Mathematics (68) test. When you take each practice test, try to simulate actual testing conditions.

To take the practice tests, sit in a quiet space, time yourself, and work through as many of the questions as time allows. The practice tests are followed by detailed answer explanations to help you find your weak areas, learn from your mistakes, and raise your MTEL Elementary Mathematics (68) score.

STEP 6: Analyze Your Performance



After taking the practice tests, look over the answer keys and explanations to learn which questions you answered correctly and which you did not. Never be discouraged if you make a few mistakes. See them as a learning opportunity. This will highlight your strengths and weaknesses.

You can use the results to determine if you need additional practice or if you are ready to take the actual MTEL Elementary Mathematics (68) test.

Looking for more?

Visit EffortlessMath.com/MTEL to find hundreds of MTEL Elementary Mathematics (68) worksheets, video tutorials, practice tests, MTEL Elementary Mathematics (68) formulas, and much more.

Or scan this QR code.

No Registration Required.

Adding and Subtracting Fractions

- For "like" fractions (fractions with the same denominator), add or subtract the numerators (top numbers) and write the answer over the common denominator (bottom numbers).
- Adding and Subtracting fractions with the same denominator:

$$\frac{a}{b}+\frac{c}{b}=\frac{a+c}{b} \qquad \frac{a}{b}-\frac{c}{b}=\frac{a-c}{b}$$

- Find equivalent fractions with the same denominator before you can add or subtract fractions with different denominators.
- Adding and Subtracting fractions with different denominators:

$$\frac{a}{b}+\frac{c}{d}=\frac{ad+bc}{bd} \qquad \frac{a}{b}-\frac{c}{d}=\frac{ad-bc}{bd}$$

Examples:

Example 1. Find the sum. $\frac{2}{3}+\frac{1}{2}=$

***Solution*:** These two fractions are "unlike" fractions. (They have different denominators). Use this formula: $\frac{a}{b}+\frac{c}{d}=\frac{ad+cb}{bd}$

Then: $\frac{2}{3}+\frac{1}{2}=\frac{(2)(2)+(3)(1)}{3\times 2}=\frac{4+3}{6}=\frac{7}{6}$

Example 2. Find the difference. $\frac{3}{5}-\frac{2}{7}=$

***Solution*:** For "unlike" fractions, find equivalent fractions with the same denominator before you can add or subtract fractions with different denominators. Use this formula: $\frac{a}{b}-\frac{c}{d}=\frac{ad-bc}{bd}$

$\frac{3}{5}-\frac{2}{7}=\frac{(3)(7)-(2)(5)}{5\times 7}=\frac{21-10}{35}=\frac{11}{35}$

bit.ly/3nKet2X
Find more at

Multiplying and Dividing Fractions

- **Multiplying fractions:** multiply the top numbers and multiply the bottom numbers. Simplify if necessary. $\frac{a}{b} \times \frac{c}{d} = \frac{a \times c}{b \times d}$
- **Dividing fractions:** Keep, Change, Flip
- Keep the first fraction, change the division sign to multiplication, and flip the numerator and denominator of the second fraction. Then, solve!

$$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c} = \frac{a \times d}{b \times c}$$

Examples:

Example 1. Multiply. $\frac{2}{3} \times \frac{3}{5} =$

***Solution*:** Multiply the top numbers and multiply the bottom numbers.
$\frac{2}{3} \times \frac{3}{5} = \frac{2 \times 3}{3 \times 5} = \frac{6}{15}$, now, simplify: $\frac{6}{15} = \frac{6 \div 3}{15 \div 3} = \frac{2}{5}$

Example 2. Solve. $\frac{3}{4} \div \frac{2}{5} =$

***Solution*:** Keep the first fraction, change the division sign to multiplication, and flip the numerator and denominator of the second fraction.
Then: $\frac{3}{4} \div \frac{2}{5} = \frac{3}{4} \times \frac{5}{2} = \frac{3 \times 5}{4 \times 2} = \frac{15}{8}$

Example 3. Calculate. $\frac{4}{5} \times \frac{3}{4} =$

Solution: Multiply the top numbers and multiply the bottom numbers.
$\frac{4}{5} \times \frac{3}{4} = \frac{4 \times 3}{5 \times 4} = \frac{12}{20}$, simplify: $\frac{12}{20} = \frac{12 \div 4}{20 \div 4} = \frac{3}{5}$

Example 4. Solve. $\frac{5}{6} \div \frac{3}{7} =$

Solution: Keep the first fraction, change the division sign to multiplication, and flip the numerator and denominator of the second fraction.
Then: $\frac{5}{6} \div \frac{3}{7} = \frac{5}{6} \times \frac{7}{3} = \frac{5 \times 7}{6 \times 3} = \frac{35}{18}$

Find more at bit.ly/3haSiQ

Adding Mixed Numbers

Use the following steps for adding mixed numbers:

- Add whole numbers of the mixed numbers.
- Add the fractions of the mixed numbers.
- Find the Least Common Denominator (LCD) if necessary.
- Add whole numbers and fractions.
- Write your answer in lowest terms.

Examples:

Example 1. Add mixed numbers. $2\frac{1}{2}+1\frac{2}{3}=$

Solution: Let's rewriting our equation with parts separated, $2\frac{1}{2}+1\frac{2}{3}=2+\frac{1}{2}+1+\frac{2}{3}$.
Now, add whole number parts: $2+1=3$
Add the fraction parts $\frac{1}{2}+\frac{2}{3}$. Rewrite to solve with the equivalent fractions. $\frac{1}{2}+\frac{2}{3}=\frac{3}{6}+\frac{4}{6}=\frac{7}{6}$. The answer is an improper fraction (numerator is bigger than denominator). Convert the improper fraction into a mixed number: $\frac{7}{6}=1\frac{1}{6}$. Now, combine the whole and fraction parts: $3+1\frac{1}{6}=4\frac{1}{6}$

Example 2. Find the sum. $1\frac{3}{4}+2\frac{1}{2}=$

Solution: Rewriting our equation with parts separated, $1+\frac{3}{4}+2+\frac{1}{2}$. Add the whole number parts:
$1+2=3$. Add the fraction parts: $\frac{3}{4}+\frac{1}{2}=\frac{3}{4}+\frac{2}{4}=\frac{5}{4}$
Convert the improper fraction into a mixed number: $\frac{5}{4}=1\frac{1}{4}$.
Now, combine the whole and fraction parts: $3+1\frac{1}{4}=4\frac{1}{4}$



