

4

COMPLETE

Oklahoma OSTP

Grade **MATH**

PRACTICE TESTS

5

Standards-Based Test Prep with
Mixed Review, Word Problems,
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**
Built to reflect the test format and rigor



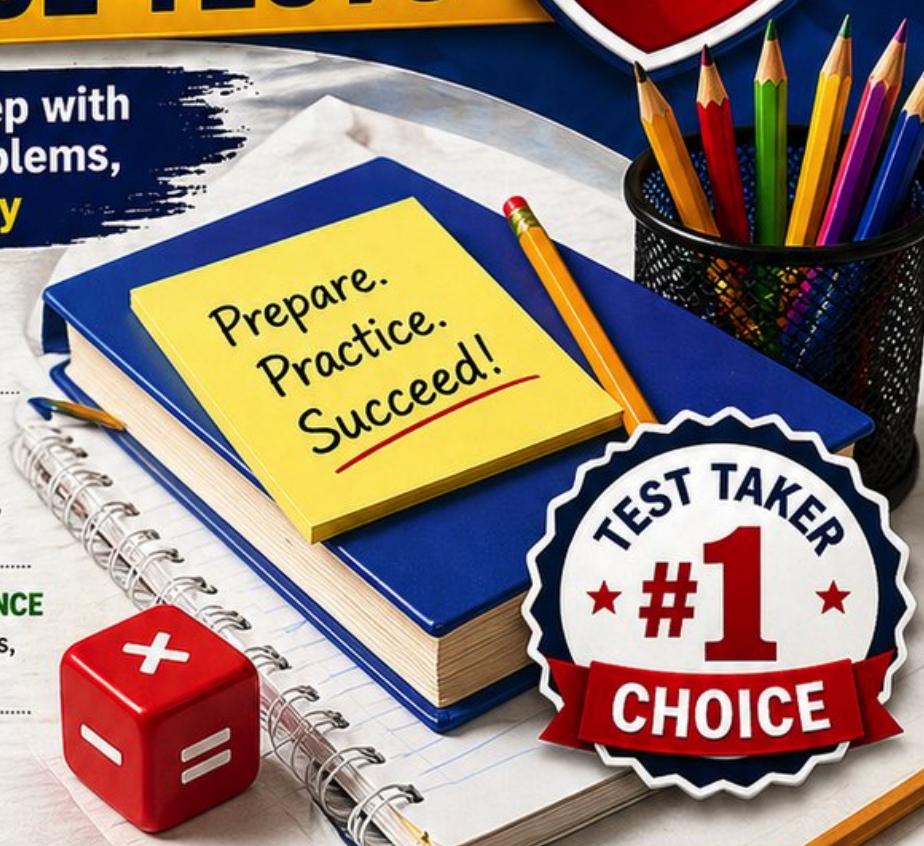
- ✓ **COVERS ALL ESSENTIAL TOPICS**
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**
Detailed explanations for every question



**TEST TAKER
#1
CHOICE**



**BUILD STRONG
MATH SKILLS
& TEST READINESS**



**IMPROVE ACCURACY,
SPEED, AND
PROBLEM SOLVING**



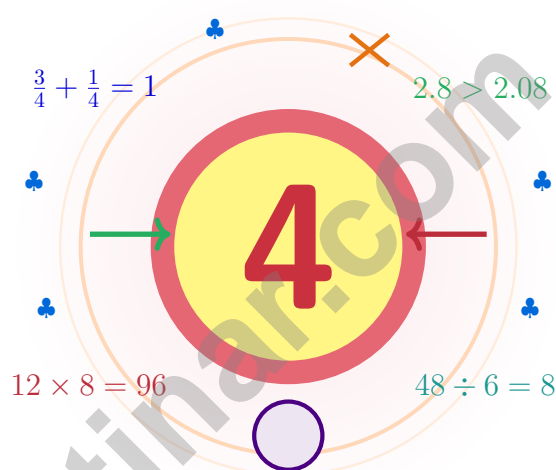
**PERFECT FOR
CLASSROOM,
HOME, OR
SELF-STUDY**



**ALIGNED TO
OKLAHOMA
STATE STANDARDS
(OSTP)**

4 Oklahoma OSTP Grade 5 Math Practice Tests

A four-test mission for curious, careful Grade 5 thinkers



Four full tests, a smart quick review, mission-style strategy pages, and student-tested support that help Grade 5 mathematicians from The Sooner State build calm, careful, confident habits.

Jay Daie and Reza Nazari



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Oklahoma, The Four-Test Quest Starts Here

Four full tests, four lessons, one stronger mathematician

To Every Math Brain in Oklahoma

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math is a lot like an Oklahoma morning – wide skies, fresh wind, and lots of room to think clearly.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

Notice

Notice numbers, units, labels, and tricky words.

Sketch

Sketch a model, table, or quick number line.

Confirm

Confirm your answer with a quick estimate.

A strong mission habit for Oklahoma: keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

Use This Book Like a Mission Coach

A four-step routine that turns practice into real improvement

Step 1: Plan

Plan a quiet hour for one full test.
Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Practice

Take the test with calm focus.
Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Inspect

Inspect every answer like a careful builder.
Circle missed questions, sort out what went sideways, and notice which skills are calling for attention.

Step 4: Adjust

Adjust what needs adjusting for the next test.
Read the explanation, fix the work, and carry that lesson into the very next test.

A Four-Week Oklahoma Mission Map

Week	Mission Focus
Week 1	Take Test 1 like a wide prairie morning – open eyes, calm heart.
Week 2	Take Test 2 and lift word problems and clear writing.
Week 3	Take Test 3 to polish fractions, decimals, and conversions.
Week 4	Take Test 4 with calm, careful, confident work.



Scan me

Practice Test Preview

What these four practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Sooner State for the Oklahoma OSTP with the steady focus of a wide-prairie sunrise. The goal is bigger than collecting right answers. Students are practicing how to read carefully, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every day.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first, crossing out weak choices, and checking for reasonableness can save time and points.

Constructed-Response Questions

Students show steps, explain a method, or support an answer with clear math. Strong reasoning matters because it shows how the answer was found.

Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- tables, line plots, patterns, and coordinate points
- geometry and multi-step real-world problem solving

What strong OSTP-style work looks like: accurate math, readable steps, the right labels or units, and a final answer that really matches the question being asked.



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Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

CAPACITY

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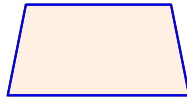
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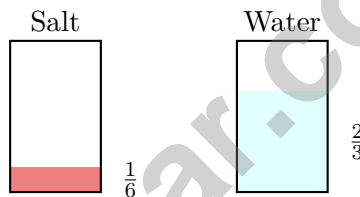
no right angles



- 1) opposite sides are parallel

The opposite sides are parallel, and no angles are right angles. Which statement is TRUE?

- A. This must be a rectangle because it has four sides.
- B. This cannot be a quadrilateral.
- C. This is a trapezoid because sides are not equal.
- D. This is a parallelogram but NOT a rectangle.
- 2) A soup recipe calls for $\frac{1}{6}$ cup of salt and $\frac{2}{3}$ cup of water. Which amount is more?



- A. Salt is more
- B. Cannot determine
- C. They are equal
- D. Water is more
- 3) What is 0.45×10 ?
- A. 0.045
- B. 45
- C. 4.5
- D. 450
- 4) Express 1,000,000,000 as a power of 10.

Record your answer in the space provided.



5) A bakery has 12 cups of frosting. Each cake uses one fourth cup. Which division equation matches the situation?

A. $\frac{1}{4} \div 12 = n$

B. $12 \div \frac{1}{4} = n$

C. $12 \times \frac{1}{4} = n$

D. $12 + \frac{1}{4} = n$

6) A city is 125 kilometers away. How many meters is that?

A. 12.5 m

B. 1,250 m

C. 12,500 m

D. 125,000 m

7) Thousandths place-value chart for 2.536: which digit is in the hundredths place?

Ones	Tenths	Hundredths	Thousandths
2	5	3	6

A. 2

B. 5

C. 3

D. 6

8) A composite art display is made from two non-overlapping rectangular prisms. Prism A is 7 inches long, 4 inches wide, and 4 inches tall. Prism B is 6 inches long, 4 inches wide, and 4 inches tall. What is the total volume?

A. 112 cubic inches

B. 236 cubic inches

C. 96 cubic inches

D. 208 cubic inches



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1) Which shows a correct way to multiply $\frac{1}{3} \times \frac{2}{5}$?

A. $\frac{1+2}{3+5} = \frac{3}{8}$

B. $\frac{1 \times 2}{3+5} = \frac{2}{8}$

C. $\frac{1 \times 2}{3 \times 5} = \frac{2}{15}$

D. $\frac{1+2}{3 \times 5} = \frac{3}{15}$

2) Box A measures 8 feet by 5 feet by 4 feet. Box B measures 7 feet by 5 feet by 4 feet. Which has the greater volume, and by how much?

 A. Box A by 30 cubic feet B. Box B by 25 cubic feet C. They have the same volume. D. Box A by 20 cubic feet

3) Evaluate: $60 - [3 \times (4 + 6)]$

 A. 20 B. 24 C. 30 D. 48

4) Which ordered pair represents “divide x by 3” for $x = 12$?

 A. (12, 4) B. (12, 9) C. (12, 15) D. (4, 12)

5) If you multiply 12 by 10^3 , what digit moves to the thousands place?

 A. 1 B. 2 C. 0 D. 5

6) A gardener plants 12 rows of flowers with 100 flowers in each row. How many flowers does the gardener plant?

Rows	Flowers
12	100
Total	?

 A. 112 B. 1012 C. 1200 D. 12000

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1) Pattern: 81, 27, 9, 3, ... Next?

A. 1

C. 3

B. 2

D. 0

2) List the first four multiples of 7.

A. 1, 7, 14, 21

C. 7, 15, 21, 28

B. 7, 14, 21, 35

D. 7, 14, 21, 28

3) A library has 8 shelves, each with 15 books. The librarian removes 3 books from each shelf. Which expression gives the new total?



A. $8 \times 15 - 3$

C. $(8 - 3) \times 15$

B. $8 + 15 - 3$

D. $8 \times (15 - 3)$

4) Pattern A starts at 0 and adds 4. Pattern B starts at 0 and adds 1. What ordered pair (A, B) comes after one step?

Record your answer in the space provided.



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1) If $n = 4$, what is 6×10^n ?

- A. 60
 B. 600

- C. 6000
 D. 60000

2) A store sells notebooks for \$2.45 each. How much do 12 notebooks cost?

Record your answer in the space provided.

3) Emma says the expression $(15 + 9) \div 3$ equals $\frac{1}{3}$ of the sum of 15 and 9. Is she correct?

- A. Yes
 B. No, it's double the sum

- C. No, it's 3 more than the sum
 D. No, it's 3 less than the sum

4) Find: $\frac{1}{3} \div 5$.

Record your answer in the space provided.



Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct.** (5.GM.1.2) The opposite sides are parallel, so the figure is a parallelogram. Since no angles are right angles, it is not a rectangle.
- Choice D is correct.** (5.N.2.4) Convert to common denominator 6: $\frac{1}{6} = \frac{1}{6}$ and $\frac{2}{3} = \frac{4}{6}$. Since $\frac{4}{6} > \frac{1}{6}$, water is more.
- Choice C is correct.** (5.N.1.1) Multiplying by 10 moves the decimal point 1 place to the right: $0.45 \times 10 = 4.5$.
- The correct answer is 10^9 .** (5.N.1.1) A power of 10 tells how many factors of 10 to use. Count the zeros: nine zeros, so 10^9 . This confirms the answer.
- Choice B is correct.** (5.D.1.2) Use total amount divided by the size of one piece. The equation is $12 \div \frac{1}{4} = n$.
- Choice D is correct.** (5.GM.3.5) 1 km = 1,000 m. Multiply: $125 \times 1000 = 125000$ m.
- Choice C is correct.** (5.N.1.1) The hundredths place is the second position to the right of the decimal point. In 2.536, the hundredths digit is 3.
- Choice D is correct.** (5.GM.1.3) Find each part first: Prism A is $7 \times 4 \times 4 = 112$ cubic inches, and Prism B is $6 \times 4 \times 4 = 96$ cubic inches. Because the parts do not overlap, add them: $112 + 96 = 208$ cubic inches.
- Choice C is correct.** (5.N.2.2) $1,632 \div 24 = 68$ plots. Check: $24 \times 68 = 1,632$.
- Choice A is correct.** (5.N.1.2) Write 18.40 so each place is lined up. Borrow from the tenths to subtract hundredths: $10 - 7 = 3$ hundredths. Then tenths: $3 - 2 = 1$; ones: $8 - 5 = 3$; tens: $1 - 0 = 1$. So $18.40 - 5.27 = 13.13$.
- Choice C is correct.** (5.GM.2.1) One prism has volume $5 \times 4 \times 3 = 60$ cubic inches. Two prisms have volume $60 \times 2 = 120$ cubic inches.
- The correct answer is 34000.** (5.N.1.1) $10^3 = 1,000$, and multiplying by 1,000 attaches three zeros: 34,000.
- Choice A is correct.** (5.D.1.2) Each mile has 6 sixth-mile sections. So $3 \div \frac{1}{6} = 3 \times 6 = 18$ sections.
- Choice C is correct.** (5.GM.1.1) All three angles (89° , 45° , 46°) are less than 90 degrees, making this an acute triangle. Since all side lengths are different, it is scalene.
- Choice B is correct.** (5.GM.3.5) Since 1 gallon = 4 quarts, divide 12 by 4: $12 \div 4 = 3$ gallons. This also matches 24 pints because 3 gallons equals 24 pints.
- Choice D is correct.** (5.GM.1.2) Rectangles and squares have four right angles, and their opposite sides are parallel.
- Choice D is correct.** (5.N.2.2) Multiply: $132 \times 24 = 132 \times (20 + 4) = 2,640 + 528 = 3,168$.
- Choices A, B are correct.** (5.A.1.2) The matching pairs are (0, 0), (2, 4), (4, 8), (6, 12), (8, 16). C and D misalign the two sequences.
- Choice C is correct.** (5.A.2.3) The phrase “the sum of 8 and 3” means group 8 + 3. Then multiply by 4 and subtract the product 2×6 .
- Choice A is correct.** (5.N.2.2) In 1.254, the hundredths digit is 5, so the missing term is 0.05 (or $\frac{5}{100}$).
- Choice D is correct.** (5.N.3.3) LCD = 12. $1 = \frac{12}{12}$, $\frac{1}{4} = \frac{3}{12}$, $\frac{1}{6} = \frac{2}{12}$. $\frac{12}{12} - \frac{3}{12} - \frac{2}{12} = \frac{7}{12}$.
- Choice B is correct.** (5.A.1.2) Week 1: 5 plants. Add 3 each week. Week 8: $5 + 7(3) = 5 + 21 = 26$ plants.
- The correct answer is 11.** (5.A.2.1) The parentheses give $15 + 9 = 24$. Then $24 \div 4 = 6$, and the remaining steps are $6 - 2 = 4$ and $4 + 7 = 11$.
- Choice A is correct.** (5.N.1.3) $2\frac{1}{5} = \frac{11}{5}$ and $1\frac{1}{4} = \frac{5}{4}$. Multiply: $\frac{11}{5} \times \frac{5}{4} = \frac{55}{20} = 2\frac{15}{20} = 2\frac{3}{4}$.
- Choice B is correct.** (5.N.1.3) Since $5 \div \frac{1}{5} = 5 \times 5 = 25$, the whole number is 5.
- Choice A is correct.** (5.N.3.2) Multiples of 4: 4, 8, 12, 16, 20, 24, ... Multiples of 6: 6, 12, 18, 24, ... Multiples of 8: 8, 16, 24, ... The first common multiple is 24, so the LCD is 24.
- Choice B is correct.** (5.N.1.1) Dividing by 1,000 moves the decimal 3 places left: $35 \rightarrow 3.5 \rightarrow 0.35 \rightarrow 0.035$.
- Choice B is correct.** (5.N.1.1) The basic fact is $7 \times 8 = 56$. The factors 700 and 80 have three zeros total, so the product is 56,000.
- The correct answer is 72 cubic feet.** (5.A.2.3) The garden bed is a rectangular prism, so multiply the three dimensions: $9 \times 4 \times 2 = 72$ cubic feet.
- Choice B is correct.** (5.N.1.3) $30 \times \frac{2}{3} = 20$ feet. Since $\frac{2}{3} < 1$, the painted length is less than 30 feet.



Authors' Notes

A Message From Your Math Partner

Hey there, Problem Solver!

◇ Incredible work! You've journeyed through 4 complete practice tests, and that's no small accomplishment! Each question you tackled strengthened your mathematical thinking. When you began, some problems might have felt overwhelming, but now you've developed the skills to break them down systematically. You've transformed into a confident mathematician who understands that persistence beats perfection every single time! ◇

★ **Here's something mathematicians understand:** mistakes are simply opportunities to learn something new. The greatest problem-solvers in history made countless errors before their breakthroughs. Through these 4 tests, you've practiced that same growth mindset. You've discovered that every challenging problem teaches you something valuable, and that knowledge stays with you forever! ★

Your Mathematical Growth Journey

- **Problem-Solving Skills:** EXCEPTIONALLY DEVELOPED! You can analyze complex situations with confidence!
- **Strategic Thinking:** SIGNIFICANTLY STRENGTHENED! You recognize patterns and apply effective strategies!
- **Persistence Level:** REMARKABLY HIGH! You've proven you can work through any challenge!
- **Test Readiness:** COMPLETELY PREPARED! You have all the tools you need to succeed!

Remember this: test day is your opportunity to demonstrate everything you've learned! You've completed 4 comprehensive practice tests; that's substantial preparation! You've analyzed problems, applied strategies, and developed mathematical confidence. Now it's time to showcase your abilities! Take a calming breath, trust your preparation, and remember that every skill you've built is ready to support you. You've got this!

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Math Teacher and Your Cheer Squad

4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

WHAT'S INSIDE:



4 COMPLETE PRACTICE TESTS

Full-length tests that reflect real test format and rigor.



COVERS ALL GRADE 5 TOPICS

Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more.



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Build problem-solving skills with mixed review questions and real-world word problems.



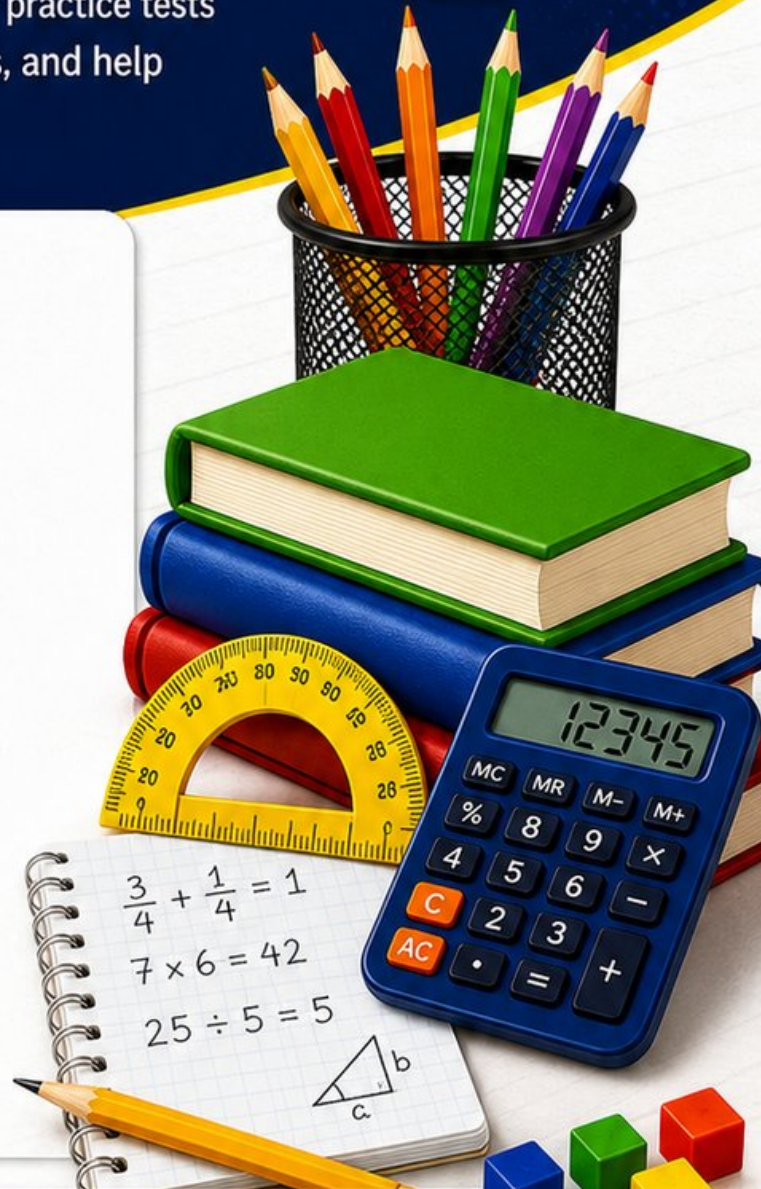
DETAILED ANSWER KEY

Step-by-step explanations for every question to help students learn and improve.



BUILD CONFIDENCE & IMPROVE SCORES

Practice consistently, reduce test anxiety, and achieve your best score!



PRACTICE SMART. LEARN MORE. ACHIEVE YOUR BEST.



Strengthen
Math Skills



Improve
Accuracy
& Speed



Master
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Concepts



Boost
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