

Grades 4–6

Math Diagnostic Test 2026

Whole Numbers · Decimals · All Four Operations

Name: _____ Grade: _____ Date: _____

SHOW ALL WORK

Write your work clearly in the space provided or on scratch paper.

Answers without work shown cannot be fully evaluated. No calculator.

This is not a timed test. Work carefully and at your own pace.

How this test is organized

FOUR SECTIONS: **Addition, Subtraction, Multiplication, Division.**

EACH SECTION: 2 pages = 1 computation + 1 word problems

Page 1 – Computation

3 columns of **4 problems** each.

Column 1 – 4th grade level;

Column 2 – 5th grade level;

Column 3 – 6th grade level.

Work across one column at a time.

Page 2 – Word Problems

3 rows of **2 problems** each.

Row 1 – 4th grade level;

Row 2 – 5th grade level;

Row 3 – 6th grade level.

Each pair: onestep + multistep problem.

Grade stop lines — Each page has stop lines for 4th and 5th graders. Students may stop at their own grade level. The problems above the stop line are on-grade. Problems above grade level are optional.

End pages — After the four sections, there are three pages of mixed operations word problems (one per grade level), each using all four operations.

ADDITION – COMPUTATION

Work through one column at a time! Start with column 1. Circle your answers. Go as far as you can!

4th grade

4.NBT.B.4

1a. $47,358 + 26,745 =$

1b. $309,847 + 54,266 =$

1c. $598,001 + 403,999 =$

1d.

$$\begin{array}{r} 24,836 \\ + 71,409 \\ \hline 38,755 \end{array}$$

Correct: _____ / 4

👉 4th graders can stop here

5th grade

5.NBT.B.7

2a. $46.8 + 135.47 =$

2b. $7.09 + 12.6 + 0.85 =$

2c. $203.07 + 98.9 =$

2d. $5.6 + 18.74 + 100.08 =$

Correct: _____ / 4

👉 5th graders can stop here

6th grade

6.NS.B.3

3a. $6.105 + 10.4 + 3.075 =$

3b. $-38 + 15 =$

3c. $-47.6 + (-18.9) =$

3d. $-125 + 48 + (-33) =$

Correct: _____ / 4

End of Addition Computation

ADDITION – WORD PROBLEMS Start with problem 4. If you can, try problems 5 and 6!

A school collected 1,245 canned goods in October and 873 in November. How many cans did they collect in total?

4a

one-step

Correct: ___ / 1

A wildlife rescue center took in 486 animals in the spring, 375 in the summer, and 210 in the fall. Find the total animals rescued. Did they meet their yearly goal of 1,200 rescues?

4b

multistep

Correct: ___ / 1

 **4th graders can stop here**

At a track meet, Jaylen ran 100 meters in 13.6 seconds and his teammate ran it in 14.08 seconds. What was their combined time?

5a

one-step

Correct: ___ / 1

Sofia is buying school supplies. A backpack costs \$24.99, a binder costs \$6.75, and colored pencils cost \$3.08. She has \$34.81. What is the total cost of all three items? Does she have enough money?

5b

multistep

Correct: ___ / 1

 **5th graders can stop here**

A chef bought 0.243 kilograms of almonds and 0.97 kilograms of pecans. How many kilograms of nuts did the chef buy in all?

6a

one-step

Correct: ___ / 1

After opening a new bank account, a business had two charges come through: \$875.15 for a vendor and \$409.85 for a contractor. Write an equation to represent their new balance. How much do they need to deposit to reach a balance of \$0?

6b

multistep

Correct: ___ / 1

End of Addition

SUBTRACTION – COMPUTATION

Work through one column at a time! Start with column 1. Circle your answers. Go as far as you can!

4th grade

4.NBT.B.4

1a. $83,741 - 45,628 =$

1b. $500,000 - 137,486 =$

1c. $402,305 - 58,967 =$

1d.

$$\begin{array}{r} 716,040 \\ - 289,358 \\ \hline \end{array}$$

Correct: _____ / 4

👉 4th graders can stop here

5th grade

5.NBT.B.7

2a. $74.3 - 28.65 =$

2b. $100 - 43.78 =$

2c. $205.04 - 67.9 =$

2d. $83.00 - 19.47 - 6.8 =$

Correct: _____ / 4

👉 5th graders can stop here

6th grade

6.NS.B.3

3a. $1,047.83 - 589.071 =$

3b. $-18 - (+25) =$

3c. $-54.2 - (-81.7) =$

3d. $47 - (-63) - 28 =$

Correct: _____ / 4

End of Subtraction Computation

SUBTRACTION — WORD PROBLEMS Start with problem 4. If you can, try problems 5 and 6!

A national park had 312,540 visitors last year. This year it had 275,318 visitors. How many fewer visitors came this year than last year?

4a

one-step

Correct: ___ / 1

A warehouse had 8,000 bottles of water in stock. They shipped 2,750 bottles on Monday and 1,436 bottles on Wednesday. How many bottles remain in the warehouse?

4b

multistep

Correct: ___ / 1

 **4th graders can stop here**

A pitcher held 2.5 liters of juice. After breakfast, only 0.85 liters remained. How much juice was poured during breakfast?

5a

one-step

Correct: ___ / 1

Marcus has \$50.00 to spend at a sports store. He buys a water bottle for \$18.49 and a pair of socks for \$6.95. How much change should he receive? Can he afford to buy a shirt on sale for \$18.99?

5b

multistep

Correct: ___ / 1

 **5th graders can stop here**

At the beginning of the day, a water tank contained 500.8 gallons of water. During the day, some of the water was used to water a garden. At the end of the day, the water tank contained 318.09 gallons of water. What was the total amount of water used that day?

6a

one-step

Correct: ___ / 1

A company's account balance was -\$748.25 (overdrawn). They deposited \$1,200.00 to bring it positive, but then the payment of \$112.49 was made using available balance. What was the final balance after the last charge?

6b

multistep

Correct: ___ / 1

MULTIPLICATION – COMPUTATION

Work through one column at a time! Start with column 1. Circle your answers. Go as far as you can!

4th grade

4.NBT.B.4

1a. $3,847 \times 6 =$

1b. $7,056 \times 8 =$

1c. $46 \times 73 =$

1d. $85 \times 64 =$

Correct: _____ / 4

👉 4th graders can stop here

5th grade

5.NBT.B.7

2a. $348 \times 276 =$

2b. $6.4 \times 7 =$

2c. $3.25 \times 14 =$

2d. $4.6 \times 2.3 =$

Correct: _____ / 4

👉 5th graders can stop here

6th grade

6.NS.B.3

3a. $47.6 \times 0.135 =$

3b. $-9 \times 14 =$

3c. $-8 \times (-15) =$

3d. $-6.5 \times 4.2 =$

Correct: _____ / 4

End of Multiplication Computation

MULTIPLICATION — WORD PROBLEMS Start with problem 4. If you can, try problems 5 and 6!

A school orders 8 boxes of notebooks. Each box contains 275 notebooks. How many notebooks did the school order in all?

4a

one-step

Correct: ___ / 1

A theater has 34 rows of seats. Each row has 20 seats. Tickets cost \$9 each. The theater sold out every seat for a weekend show. How much total money was collected from ticket sales?

4b

multistep

Correct: ___ / 1

 **4th graders can stop here**

Gasoline costs \$4.35 per gallon. A driver fills up their tank with 12 gallons. How much does the driver pay in total?

5a

one-step

Correct: ___ / 1

A farmer grows strawberries in 24 rows, with 100 plants per row. Each plant produces an average of 1.8 pounds of strawberries. How many pounds of strawberries will the farm produce?

5b

multistep

Correct: ___ / 1

 **5th graders can stop here**

A submarine descends at a rate of 12.5 feet per minute. What is the submarine's depth relative to sea level after an hour?

6a

one-step

Correct: ___ / 1

The weight of an object on the Moon is about 0.167 of its weight on Earth. How much does a 180-pound astronaut weigh on the Moon? What about the machine weighing 10 times that?

6b

multistep

Correct: ___ / 1

– End of Multiplication –

DIVISION – COMPUTATION

Work through one column at a time! Start with column 1. Circle your answers. Go as far as you can!

4th grade

4.NBT.B.4

1a. $7,248 \div 6 =$

1b. $5,391 \div 7 =$

1c. $4,032 \div 9 =$

1d. $6,175 \div 8 =$

Correct: _____ / 4

 4th graders can stop here

5th grade

5.NBT.B.7

2a. $3,276 \div 12 =$

2b. $4,819 \div 23 =$

2c. $86.4 \div 6 =$

2d. $55.08 \div 12 =$

Correct: _____ / 4

 5th graders can stop here

6th grade

6.NS.B.3

3a. $805.7 \div 35 =$

3b. $-84 \div 12 =$

3c. $-135 \div (-9) =$

3d. $0.0744 \div 6.2 =$

Correct: _____ / 4

End of Division Computation

DIVISION – WORD PROBLEMS *Start with problem 4. If you can, try problems 5 and 6!*

A shipment of 856 apples needs to be packed equally into 8 crates. How many apples will go in each crate?

4a

one-step

Correct: ___ / 1

The California Café has 2 shaded seating areas for customers to keep cool. Each area can fit 4 tables. If they have a total of 32 chairs to distribute evenly, how many chairs should each table have?

4b

multistep

Correct: ___ / 1

 **4th graders can stop here**

Michelle wants to save \$150 for a trip to the Six Flags amusement park. If she saves \$12 each week, how many weeks will it take her to save enough money for the trip?

5a

one-step

Correct: ___ / 1

A website charges a fixed amount for each movie rental. If you can rent six movies for \$4.68, then how much is one movie? Is it more expensive than another offer of 8 movies for \$6.24?

5b

multistep

Correct: ___ / 1

 **5th graders can stop here**

A cliff diver drops a total of -114 feet over 6 equal dives. What is the average change in depth per dive? Write as a negative number.

6a

one-step

Correct: ___ / 1

A science experiment recorded a total temperature change of -56.7°F spread evenly over 7 hours. In how many hours can they expect the temperature to drop from 89.1°F till 0°F on a different project?

6b

multistep

Correct: ___ / 1

– End of Division –

MIXED OPERATIONS — 4TH GRADE *These problems use more than one operation. Show all your work!*

1a

Liam bought 4 bags of dog treats. Each bag had 15 treats in it. If he shares the treats equally among his 3 dogs, how many treats does each dog get?

Correct: ___ / 1

1b

Sarah bought a pack of 25 Sugar cookies, 12 Chocolate Chip, and 20 Rocky Road for her birthday class party. If there are 9 students in her class and everyone gets the exact same amount, how many cupcakes will each student get, and how many will be left over?

Correct: ___ / 1

 **4th graders can stop here**

MIXED OPERATIONS — 5TH GRADE *These problems use more than one operation. Show all your work!*

2a

Mrs. Hilt bought 20 books. She paid \$6.50 for each book. She later sold all 20 books for \$10.99 each. What is the difference between the total amount of money Mrs. Hilt sold the books for and the total amount of money she paid for the books?

Correct: ___ / 1

2b

A meal in a fancy restaurant costs three times as much as a meal in the cafeteria. The meal in the fancy restaurant costs \$36. In a 5-day workweek, Mary ate lunch at the fancy restaurant once, and in the cafeteria the rest of the days. How much did she spend on lunch that week?

Correct: ___ / 1

 **5th graders can stop here**

MIXED OPERATIONS — 6TH GRADE *These problems use more than one operation. Show all your work!*

3a

During a neighborhood bake sale, you bake 25 cookies using 2.75 cups of flour. If you need to bake 60 cookies, how many cups of flour will you require?

Correct: ___ / 1

3b

A jacket originally priced at \$80 is on sale for 15% off. You also got a coupon for \$10. What is the final price of the jacket? How much would you need to pay in total if sales tax is 10%?

Correct: ___ / 1

END OF THE TEST!

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Congratulations!

