

Grade 4 · Adding and Subtracting Fractions and Mixed Numbers · Test

Common Core 4.NF.B.3 · mathovore.fr

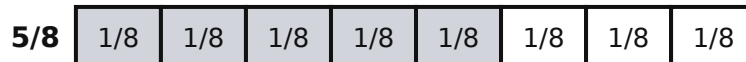
Name: _____ Date: ____/____/____ Score: _____

This test has 9 questions worth 20 points in total. It covers decomposing fractions, adding and subtracting fractions with like denominators, and working with mixed numbers. Show your steps and write mixed-number answers in a clear form.

Test information

- **Grade:** Grade 4
- **Chapter:** Adding and Subtracting Fractions and Mixed Numbers
- **Common Core:** 4.NF.B.3
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 2 pts; Question 4: 2 pts; Question 5: 3 pts; Question 6: 3 pts; Question 7: 2 pts; Question 8: 2 pts; Question 9: 2 pts)

Question 1: Decompose a fraction (2 points)



Five eighths.

- Write $\frac{5}{8}$ as a sum of unit fractions. (1 point)
- Write $\frac{5}{8}$ as the sum of two different fractions with denominator 8. (1 point)

Question 2: Same denominator (2 points)

- Find $\frac{5}{12} + \frac{4}{12}$. (1 point)
- Find $\frac{9}{10} - \frac{6}{10}$. (1 point)

Question 3: Missing numbers (2 points)

- $\frac{3}{8} + ? = 1$ (1 point)
- $? - \frac{4}{12} = \frac{5}{12}$ (1 point)

Question 4: Mixed numbers and fractions (2 points)

- a. Write $2\frac{3}{10}$ as a fraction. (1 point)
- b. Write $\frac{19}{8}$ as a mixed number. (1 point)

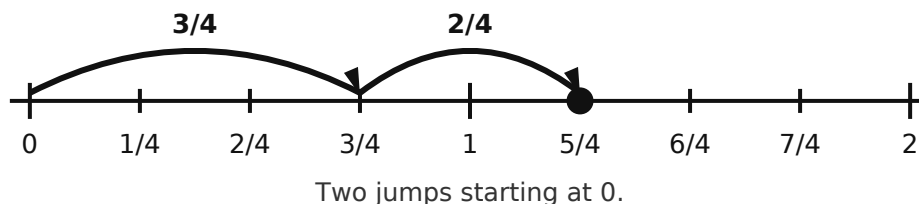
Question 5: Add mixed numbers (3 points)

- a. Find $2\frac{4}{10} + 3\frac{3}{10}$. (1 point)
- b. Find $1\frac{7}{8} + 2\frac{5}{8}$. (2 points)

Question 6: Subtract mixed numbers (3 points)

- a. Find $7\frac{5}{6} - 2\frac{1}{6}$. (1 point)
- b. Find $5\frac{1}{4} - 2\frac{3}{4}$. (2 points)

Question 7: Number line addition (2 points)



- a. Write an addition equation for the jumps. (1 point)
- b. Write the total as a mixed number. (1 point)

Question 8: Recipe ingredients (2 points)

Aisha uses $1\frac{5}{8}$ cups of sugar and $2\frac{4}{8}$ cups of flour. How many cups of these two ingredients does she use in all?

Question 9: Rope length (2 points)

A rope is 6 yards long. Noah cuts off $2\frac{3}{4}$ yards.



A rope cut into two pieces.

How long is the piece that is left?