

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

Common Core 4.NF.B.3a, 4.NF.B.3b, 4.NF.B.3c, 4.NF.B.3d · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This test checks adding and subtracting fractions and mixed numbers with like denominators, decomposing fractions, and word problems. It has 9 questions worth 20 points. Allow 45 minutes and no calculator.

About this test

- Grade: Grade 4
- Chapter: Adding and Subtracting Fractions and Mixed Numbers
- Standards: 4.NF.B.3a, 4.NF.B.3b, 4.NF.B.3c, 4.NF.B.3d
- Time: 45 minutes
- Total: 20 points

Question 1 - Like denominators [2 pts]

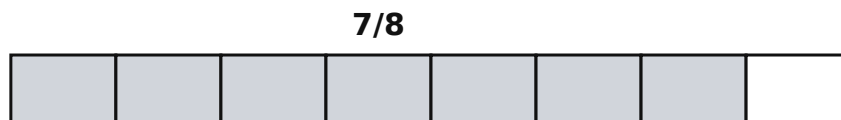
Find each sum or difference.

a. $\frac{3}{10} + \frac{6}{10}$ (1 point)

b. $\frac{11}{12} - \frac{4}{12}$ (1 point)

Question 2 - Decompose [2 pts]

The strip shows $\frac{7}{8}$.



7 of 8 equal parts shaded

A strip cut into eighths.

Write $\frac{7}{8}$ as a sum of two fractions in two different ways.

Question 3 - Mixed number picture [2 pts]

The picture shows a mixed number.



2 wholes and $\frac{3}{5}$

Strips cut into fifths.

Write the mixed number. Then write it as an improper fraction.

Question 4 - Convert [2 pts]

(a) Write $\frac{17}{6}$ as a mixed number. (1 point)

(b) Write $3\frac{1}{2}$ as an improper fraction. (1 point)

Question 5 - Add mixed numbers [2 pts]

Add: $2\frac{5}{8} + 3\frac{6}{8}$.

Question 6 - Subtract mixed numbers [2 pts]

Subtract: $6\frac{2}{5} - 3\frac{4}{5}$.

Question 7 - Hiking trail [3 pts]

A hiking trail is $5\frac{2}{10}$ miles long. Diego has hiked $2\frac{7}{10}$ miles.



A tape diagram of the trail.

a. How many miles are left? (2 points)

- b. The next day Diego hikes $1\frac{8}{10}$ more miles. How many miles are left then? (1 point)

Question 8 - Farmers market [3 pts]

Aisha bought $1\frac{3}{4}$ pounds of apples, $2\frac{2}{4}$ pounds of pears and $\frac{3}{4}$ pound of grapes.

- How many pounds of apples and pears did she buy? (1 point)
- How many pounds of fruit did she buy in all? (1 point)
- Her bag holds 6 pounds. How much more can fit? (1 point)

Question 9 - Mia's mistake [2 pts]

Mia says $\frac{2}{5} + \frac{2}{5} = \frac{4}{10}$. Explain her mistake and give the correct sum.