

Grade 5 - Adding and Subtracting Fractions with Unlike Denominators - Test

Common Core 5.NF.A.1, 5.NF.A.2 · maths-pdf.fr/en/

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

This test has 9 questions worth 20 points in all. It covers adding and subtracting fractions and mixed numbers with unlike denominators (5.NF.A.1, 5.NF.A.2). Show all work, simplify answers, and write units in word problems. The test takes about 45 minutes.

About this test

- Grade: Grade 5
- Chapter: Adding and Subtracting Fractions with Unlike Denominators
- Standards: 5.NF.A.1, 5.NF.A.2
- Time: 45 minutes
- Total: 20 points

Question 1 - Add unlike fractions [2 pts]

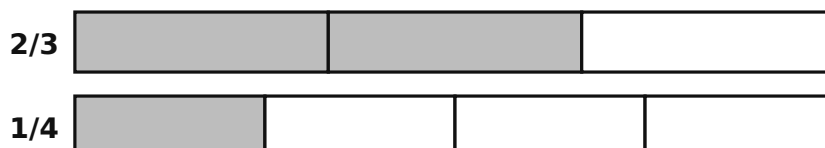
- a. Find $\frac{1}{3} + \frac{1}{4}$. (1 point)
- b. Find $\frac{1}{6} + \frac{1}{8}$. (1 point)

Question 2 - Subtract unlike fractions [2 pts]

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

Question 3 - Add from a model [2 pts]

The bars show two fractions.



The bars show two thirds and one fourth.

- a. Write the addition sentence for the two shaded amounts. (1 point)
- b. Find the sum. (1 point)

Question 4 - Mixed numbers [3 pts]

- a. Find $3\frac{2}{5} + 2\frac{7}{10}$. (1 point)
- b. Find $6\frac{1}{4} - 2\frac{5}{6}$. (2 points)

Question 5 - Is it reasonable? [2 pts]

Mei says that $\frac{3}{8} + \frac{5}{9} = \frac{8}{17}$.

- a. Use benchmark fractions to explain why her answer is not reasonable. (1 point)
- b. Find the correct sum. (1 point)

Question 6 - Two ropes [2 pts]

Noah has a rope that is $4\frac{1}{2}$ feet long and another that is $2\frac{2}{3}$ feet long. How much longer is the first rope?



Noah's two ropes.

Question 7 - Trail mix [3 pts]

Aisha mixes $\frac{3}{4}$ cup of raisins, $\frac{2}{3}$ cup of peanuts, and $\frac{1}{2}$ cup of cereal.

- a. How many cups of trail mix does she make? (2 points)
- b. Does the mix fit in a 2-cup jar? How much room is left in the jar? (1 point)

Question 8 - Practice goal [2 pts]

Liam practiced baseball for the times shown. His goal for the week is 6 hours.

Total?		
1 1/4 h	2 1/2 h	1 2/3 h

Liam's practice times.

- Find the total practice time. (1 point)
- How many more hours does he need to reach his goal? (1 point)

Question 9 - Missing numbers [2 pts]

- Find the missing number: $\frac{5}{6} - ? = \frac{1}{4}$. (1 point)
- Find the missing number: $? + 3\frac{1}{3} = 5\frac{1}{2}$. (1 point)