

Adding and Subtracting Fractions: math test, Grade 5 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Equivalent fractions

/ 3 pts

- a. Find the missing number: $\frac{5}{7} = \frac{?}{28}$. (1 pt)
- b. Write $\frac{18}{30}$ in simplest form. (1 pt)
- c. Are $\frac{8}{12}$ and $\frac{10}{15}$ equivalent? Justify. (1 pt)

2 Least common multiple

/ 3 pts

Find the LCM of each pair.

- a. **9** and **12** (1 pt)
- b. **5** and **7** (1 pt)
- c. **8** and **20** (1 pt)

3 Adding and subtracting fractions

/ 4 pts

Calculate. Simplify your answers.

a. $\frac{3}{5} + \frac{1}{4}$ (1 pt)

b. $\frac{5}{12} + \frac{7}{18}$ (1.5 pts)

c. $\frac{11}{15} - \frac{2}{9}$ (1.5 pts)

4 Mixed numbers

/ 3 pts

Calculate.

a. $3\frac{2}{5} + 1\frac{7}{10}$ (1.5 pts)

b. $6\frac{1}{6} - 2\frac{3}{4}$ (1.5 pts)

5 Estimating

/ 3 pts

a. Estimate $\frac{4}{9} + \frac{11}{12}$ using the benchmarks 0, $\frac{1}{2}$ and 1. (1.5 pts)

b. Calculate the exact sum and explain why it is reasonable. (1.5 pts)

6 The bike trip

/ 4 pts

Marco rides $12\frac{3}{4}$ miles on Saturday and $9\frac{5}{6}$ miles on Sunday.

a. How many miles does he ride in all? (2 pts)

b. His goal for the weekend is **25** miles. How many miles short of the goal is he? (1 pt)

c. How much longer was the Saturday ride than the Sunday ride? (1 pt)



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