

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

Test solutions with the detailed point scale. Add up your points and spot what to review.

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

1 Equivalent fractions

/ 3 pts

- a. $7 \times 4 = 28$, so $5 \times 4 = 20$: $\frac{20}{28}$. (1 pt)
- b. GCF is 6: $\frac{18}{30} = \frac{3}{5}$. (1 pt)
- c. $\frac{8}{12} = \frac{2}{3}$ and $\frac{10}{15} = \frac{2}{3}$, so yes, they are equivalent. (1 pt)

2 Least common multiple

/ 3 pts

- a. Multiples of 12: 12, 24, 36. LCM = 36. (1 pt)
- b. No common factor, so LCM = $5 \times 7 = 35$. (1 pt)
- c. Multiples of 20: 20, 40. LCM = 40. (1 pt)

3 Adding and subtracting fractions

/ 4 pts

a. $\frac{12}{20} + \frac{5}{20} = \frac{17}{20}$. (1 pt)

b. LCM = 36: $\frac{15}{36} + \frac{14}{36} = \frac{29}{36}$. (1.5 pts: 0.5 for the denominator, 0.5 for the conversions, 0.5 for the sum)

c. LCM = 45: $\frac{33}{45} - \frac{10}{45} = \frac{23}{45}$. (1.5 pts: 0.5 for the denominator, 0.5 for the conversions, 0.5 for the difference)

4 Mixed numbers

/ 3 pts

a. $3\frac{4}{10} + 1\frac{7}{10} = 4\frac{11}{10} = 5\frac{1}{10}$. (1.5 pts: 0.5 common denominator, 0.5 sum, 0.5 regrouping the improper fraction)

b. $6\frac{2}{12} - 2\frac{9}{12} = 5\frac{14}{12} - 2\frac{9}{12} = 3\frac{5}{12}$. (1.5 pts: 0.5 common denominator, 0.5 regrouping, 0.5 final difference)

5 Estimating

/ 3 pts

a. $\frac{4}{9} \approx \frac{1}{2}$ and $\frac{11}{12} \approx 1$, so the sum is about $1\frac{1}{2}$. (1.5 pts)

b. LCM = 36: $\frac{16}{36} + \frac{33}{36} = \frac{49}{36} = 1\frac{13}{36}$. (1 pt) It is close to the estimate $1\frac{1}{2}$, so it is reasonable. (0.5 pt)

6 The bike trip

/ 4 pts

a. $12\frac{9}{12} + 9\frac{10}{12} = 21\frac{19}{12} = 22\frac{7}{12}$ miles. (2 pts)

b. $25 - 22\frac{7}{12} = 24\frac{12}{12} - 22\frac{7}{12} = 2\frac{5}{12}$ miles. (1 pt)

c. $12\frac{9}{12} - 9\frac{10}{12} = 11\frac{21}{12} - 9\frac{10}{12} = 2\frac{11}{12}$ miles. (1 pt)



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