036 Math Practice

Subtracting with Like Denominators

Math PRACTICE *in* SCIENCE

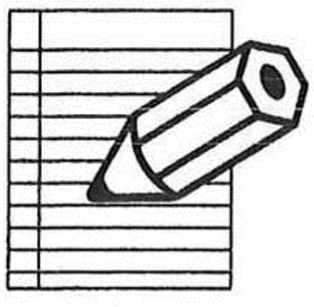
You need like denominators to subtract fractions or mixed numbers. If the denominators are alike, you subtract the whole numbers and the numerators. You keep the same common denominator for your answer. You may need to rename your answer in lowest terms.

Example $12\frac{8}{9} - 10\frac{7}{9} = 2\frac{1}{9}$

Since the denominators are the same, subtract the numerators.
$8 - 7 = 1$

Subtract these fractions. Express your answers in lowest terms.

1. $5\frac{7}{8} - 4\frac{5}{8}$
2. $8\frac{5}{12} - 2\frac{3}{12}$
3. $12\frac{11}{16} - 3\frac{5}{16}$
4. $8\frac{36}{40} - 2\frac{11}{40}$
5. $9\frac{2}{10} - 3\frac{1}{10}$
6. $8\frac{10}{32} - 2\frac{8}{32}$
7. $36\frac{21}{45} - 8\frac{9}{45}$
8. $30\frac{26}{50} - 8\frac{11}{50}$
9. $39\frac{21}{52} - 6\frac{7}{52}$
10. $38\frac{10}{11} - 4\frac{4}{11}$
11. $65\frac{23}{24} - 5\frac{21}{24}$
12. $18\frac{15}{20} - 6\frac{11}{20}$
13. $4\frac{6}{8} - 2\frac{1}{8}$
14. $15\frac{16}{17} - 10\frac{6}{17}$
15. $1\frac{11}{12} - \frac{5}{12}$
16. $24\frac{25}{70} - 5\frac{20}{70}$
17. $80\frac{12}{13} - 11\frac{10}{13}$
18. $6\frac{11}{45} - 1\frac{7}{45}$
19. $10\frac{17}{60} - 8\frac{8}{60}$
20. $18\frac{13}{57} - 9\frac{11}{57}$



Aiko made $7\frac{6}{8}$ quarts of lemonade to serve at the family picnic. Her 5 cousins drank $2\frac{1}{8}$ quarts. How much lemonade was left for the rest of the family?

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Subtracting with Unlike Denominators

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When you subtract fractions, the fractions have to have the same denominator.
If they don't, you have to find the least common denominator.

Example From $15\frac{2}{3}$ subtract $5\frac{1}{8}$.

Step 1: Find the least common multiple of 3 and 8.
Step 2: Use 24 as the least common denominator.
Step 3: Raise the fractions to higher terms. Then subtract.

The least common multiple of 3 and 8 is 24.

$$15\frac{2}{3} = 15\frac{16}{24}$$
$$-\,5\frac{1}{8} = \;\;5\frac{3}{24}$$
$$10\frac{13}{24}$$

Subtract these fractions. Express your answers in lowest terms.

1. $\frac{7}{8} - \frac{1}{6}$
2. $\frac{5}{10} - \frac{1}{3}$
3. $\frac{3}{4} - \frac{2}{9}$
4. $\frac{4}{7} - \frac{1}{5}$
5. $\frac{5}{6} - \frac{3}{8}$
6. $38\frac{4}{5} - 5\frac{3}{6}$
7. $5\frac{5}{5} - 2\frac{3}{8}$
8. $45\frac{5}{8} - 6\frac{1}{3}$
9. $45\frac{2}{3} - 6$
10. $18\frac{12}{15} - \frac{1}{30}$
11. $6\frac{8}{11} - 4\frac{3}{22}$
12. $12\frac{4}{5} - 2\frac{1}{3}$
13. $10\frac{7}{11} - 5\frac{1}{33}$
14. $45\frac{12}{17} - 8\frac{1}{2}$
15. $8\frac{4}{7} - \frac{2}{28}$
16. $39\frac{12}{19} - 4\frac{1}{3}$
17. $21\frac{5}{9} - 2\frac{1}{5}$
18. $28\frac{5}{7} - 9\frac{1}{4}$
19. $11\frac{15}{16} - 3\frac{1}{3}$
20. $23\frac{21}{22} - 5\frac{2}{5}$
21. $17\frac{5}{8} - 4\frac{1}{3}$
22. $12\frac{7}{10} - 6\frac{2}{3}$
23. $42\frac{3}{5} - 35\frac{3}{10}$
24. $21\frac{3}{8} - 9\frac{3}{20}$
25. $9\frac{5}{8} - \frac{2}{6}$

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