



Homework Problems

Circle the homework problems assigned to you by the computer, then complete them below.



Explain

Multiplying and Dividing

- Find the equivalent fraction:
 - $\frac{3}{5} = \frac{?}{45}$
 - $\frac{7}{8} = \frac{?}{120}$
- Write the prime factorization of 84.
- Find the greatest common factor of 18 and 72.
- Reduce to lowest terms: $\frac{20}{72}$
- Find the greatest common factor of 108 and 144.
- Reduce to lowest terms: $\frac{64}{80}$
- Find:
 - $\frac{2}{3} \cdot \frac{5}{7}$
 - $\frac{5}{12} \cdot \frac{8}{25}$
- Find:
 - $\frac{2}{3} \div \frac{5}{7}$
 - $\frac{4}{21} \div \frac{8}{3}$
- Find the reciprocal of 47.
- Find:
 - $\frac{5}{18} \cdot 3$
 - $12 \div \frac{27}{5}$

- Find: $\frac{15}{28} \cdot \frac{2}{11} \cdot \frac{7}{9}$
- Find: $\frac{11}{28} \cdot \frac{5}{33} \div \frac{2}{7}$

Adding and Subtracting

- Find: $\frac{11}{29} + \frac{9}{29}$
- Find the least common multiple (LCM) of 3 and 4.
- Find the least common denominator (LCD) of $\frac{5}{6}$ and $\frac{1}{4}$.
- Find: $\frac{1}{6} + \frac{3}{4}$
- Find: $\frac{17}{28} - \frac{5}{28}$
- Find the least common multiple (LCM) of 15 and 36.
- Find the least common denominator (LCD) of $\frac{5}{24}$ and $\frac{7}{32}$.
- Find: $\frac{23}{28} - \frac{7}{12}$
- Find: $\frac{8}{35} + \frac{21}{35} - \frac{4}{35}$
- Find the least common multiple (LCM) of 6, 15, and 35.
- Find the least common denominator (LCD) of $\frac{5}{24}$, $\frac{11}{15}$, and $\frac{1}{5}$.
- Find: $\frac{4}{5} + \frac{5}{6} - \frac{7}{10}$



Practice Problems

Here are some additional practice problems for you to try.

Multiplying and Dividing

1. Write the equivalent fraction: $\frac{2}{7} = \frac{?}{35}$
2. Write the equivalent fraction: $\frac{4}{9} = \frac{?}{27}$
3. Write the equivalent fraction: $\frac{3}{5} = \frac{18}{?}$
4. Write the prime factorization of 72.
5. Write the prime factorization of 45.
6. Write the prime factorization of 90.
7. Find the greatest common factor of 18 and 48.
8. Find the greatest common factor of 12 and 42.
9. Find the greatest common factor of 18, 24, 45.
10. Reduce to lowest terms: $\frac{15}{24}$
11. Reduce to lowest terms: $\frac{42}{56}$
12. Reduce to lowest terms: $\frac{56}{104}$
13. Find the reciprocal of 23.
14. Find the reciprocal of 35.
15. Find the reciprocal of $\frac{2}{3}$.
16. Find: $\frac{5}{6} \cdot \frac{18}{25}$
17. Find: $\frac{10}{21} \cdot \frac{3}{5}$
18. Find: $\frac{4}{5} \cdot \frac{10}{28}$
19. Find: $\frac{7}{20} \div \frac{7}{4}$
20. Find: $\frac{8}{25} \div \frac{8}{15}$
21. Find: $\frac{12}{42} \div \frac{6}{7}$

22. Find: $\frac{4}{5} \div 2$
23. Find: $\frac{6}{25} \div 3$
24. Find: $8 \div \frac{4}{5}$
25. Find: $\frac{2}{5} \cdot \frac{10}{12} \cdot \frac{4}{7}$
26. Find: $\frac{2}{5} \cdot \frac{15}{21} \cdot \frac{6}{11}$
27. Find: $\frac{3}{8} \cdot 4 \div \frac{3}{14}$
28. Find: $\frac{7}{16} \cdot 8 \div \frac{7}{12}$

Adding and Subtracting

29. Find: $\frac{3}{17} + \frac{9}{17} - \frac{7}{17}$
30. Find: $\frac{6}{23} + \frac{8}{23} - \frac{5}{23}$
31. Find the least common multiple (LCM) of 10 and 35.
32. Find the least common multiple (LCM) of 8 and 36.
33. Find the least common multiple (LCM) of 14 and 18.
34. Find the least common denominator (LCD) of $\frac{11}{20}$ and $\frac{13}{45}$.
35. Find the least common denominator (LCD) of $\frac{17}{21}$ and $\frac{3}{14}$.
36. Find the least common denominator (LCD) of $\frac{11}{18}$ and $\frac{15}{24}$.
37. Find: $\frac{2}{3} - \frac{5}{12}$
38. Find: $\frac{3}{5} - \frac{7}{15}$
39. Find: $\frac{8}{9} - \frac{5}{12}$
40. Find: $\frac{1}{2} + \frac{1}{8}$
41. Find: $\frac{1}{4} + \frac{5}{16}$
42. Find: $\frac{4}{15} + \frac{7}{8}$

43. Find the least common multiple (LCM) of 7, 14, and 21.
44. Find the least common multiple (LCM) of 10, 25, and 30.
45. Find the least common multiple (LCM) of 18, 21, and 36.
46. Find the least common denominator (LCD) of $\frac{1}{3}$, $\frac{3}{4}$, and $\frac{7}{15}$.
47. Find the least common denominator (LCD) of $\frac{1}{2}$, $\frac{2}{3}$, and $\frac{3}{10}$.
48. Find the least common denominator (LCD) of $\frac{3}{4}$, $\frac{7}{15}$, and $\frac{17}{24}$.
49. Find: $\frac{1}{12} + \frac{1}{5} + \frac{7}{10}$
50. Find: $\frac{1}{6} + \frac{1}{4} + \frac{3}{10}$
51. Find: $\frac{1}{3} + \frac{5}{18} + \frac{3}{16}$
52. Find: $\frac{5}{6} + \frac{7}{16} - 1$
53. Find: $\frac{7}{8} + \frac{5}{6} - 1$
54. Find: $\frac{3}{14} + 2 - \frac{17}{18}$
55. Find: $\frac{3}{5} + \frac{4}{7} - \frac{1}{4}$
56. Find: $\frac{5}{7} + \frac{2}{3} - \frac{1}{2}$

Practice Test

Take this practice test to be sure that you are prepared for the final quiz in Evaluate.

1. Find the greatest common factor (GCF) of 42 and 36.

2. Reduce to lowest terms: $\frac{20}{75}$

3. Find the reciprocal of $\frac{13}{45}$.

4. Find: $\frac{5}{8} \cdot \frac{18}{25} \div \frac{9}{7}$

5. Find the least common multiple (LCM) of 10 and 28.

6. Find the least common denominator (LCD) of $\frac{1}{6}$, $\frac{23}{30}$, and $\frac{3}{4}$.

7. Find: $\frac{1}{5} + \frac{1}{4}$

8. Find: $\frac{7}{9} + 5 - \frac{11}{12}$