HOMEWORK

Homework Problems

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

Explain
The GCF and LCM

1. Find the LCM of 4 and 6.
2. Find the GCF of 9 and 12.
3. Find the GCF of 18 and 24.
4. Find the LCM of 8 and 12.
5. Find the LCM of 36 and 54.
6. Find the GCF of 27 and 32.
7. Find the GCF of 45 and 60.
8. Find the LCM of 28 and 30.
9. A baker expects to use 126 eggs in one week. He can either order cartons which contain 8 eggs or cartons which contain 18 eggs, but not both. If he doesn't want any eggs left over at the end of the week, which size carton should he order?
10. There will be 256 guests at a wedding reception and the bride wants all the tables to be the same size. If she can rent tables which seat 5, 6, or 8 people, what size table should she rent?
11. Find the GCF of 18, 25 and 30.
12. Find the LCM of 9, 11 and 33.

Fractions

13. Write in lowest terms: $\frac{28}{32}$
14. Find: $\frac{4}{5} \cdot \frac{7}{10}$
15. Find: $\frac{2}{11} + \frac{5}{11}$
16. Write in lowest terms: $\frac{25}{30}$
17. Find: $\frac{7}{20} \div \frac{14}{15}$
18. Find: $5\frac{11}{17} - 2\frac{4}{17}$
19. Find: $\frac{49}{30} \cdot \frac{20}{21}$
20. Find: $3\frac{1}{6} + 2\frac{3}{8}$
21. Stock prices are recorded in eighths of a dollar. If the price of a stock is $31\frac{1}{8}$ and it loses $\frac{1}{4}$ of a dollar, what is its new price?
22. The Triple Crown is a series of three horse races—The Kentucky Derby, The Preakness Stakes, and The Belmont Stakes. The Kentucky Derby is $\frac{5}{4}$ miles, The Preakness Stakes is $\frac{19}{16}$ miles, and The Belmont Stakes is $\frac{3}{2}$ miles. What is the total distance of the three races?
23. Find: $9\frac{11}{12} - 4\frac{5}{18}$
24. Find: $\frac{63}{50} \div \frac{42}{25}$

Explore

25. Draw the appropriately overlapped circles to find the GCF of 252 and 525.
26. Draw the appropriately overlapped circles to find the LCM of 252 and 525.
27. Draw the appropriately overlapped circles to find the GCF of 540 and 315.
28. Draw the appropriately overlapped circles to find the LCM of 540 and 315.
29. Draw the appropriately overlapped circles to find the GCF of 280 and 784.
30. Draw the appropriately overlapped circles to find the LCM of 280 and 784.

APPLY

Practice Problems

Here are some additional practice problems for you to try.

The GCF and LCM

1. Find the GCF and LCM of 8 and 18.
2. Find the GCF and LCM of 10 and 36.
3. Find the GCF and LCM of 6 and 14.
4. Find the GCF and LCM of 22 and 45.
5. Find the GCF and LCM of 18 and 25.
6. Find the GCF and LCM of 24 and 35.
7. Find the GCF and LCM of 16 and 48.
8. Find the GCF and LCM of 18 and 54.
9. Find the GCF and LCM of 56 and 84.
10. Find the GCF and LCM of 36 and 88.
11. Find the GCF and LCM of 48 and 60.
12. Find the GCF and LCM of 24 and 60.
13. Find the GCF and LCM of 48 and 108.
14. Find the GCF and LCM of 32 and 48.
15. Find the GCF and LCM of 35 and 98.
16. Find the GCF and LCM of 132 and 330.
17. Find the GCF and LCM of 42 and 105.
18. Find the GCF and LCM of 40 and 50.
19. Find the GCF and LCM of 63 and 72.
20. Find the GCF and LCM of 36 and 45.
21. Find the GCF and LCM of 57 and 95.
22. Find the GCF and LCM of 51 and 68.
23. Find the GCF and LCM of 12, 16 and 36.
24. Find the GCF and LCM of 36, 45 and 108.
25. Find the GCF and LCM of 5, 10, and 14.
26. Find the GCF and LCM of 48, 72 and 120.
27. Find the GCF and LCM of 56, 96 and 152.
28. Find the GCF and LCM of 24, 56 and 96.

Fractions

29. Write in lowest terms: $\frac{36}{108}$
30. Write in lowest terms: $\frac{72}{256}$
31. Write in lowest terms: $\frac{18}{105}$
32. Find: $\frac{35}{48} \cdot \frac{96}{105}$
33. Find: $\frac{42}{55} \cdot \frac{33}{56}$
34. Find: $\frac{15}{28} \cdot \frac{21}{100}$
35. Find: $\frac{5}{6} \div \frac{5}{9}$
36. Find: $\frac{12}{25} \div \frac{6}{15}$
37. Find: $\frac{15}{42} \div \frac{10}{21}$
38. Find: $\frac{27}{52} \div \frac{81}{39}$
39. Find: $\frac{56}{75} \div \frac{64}{225}$
40. Find: $\frac{25}{42} \div \frac{125}{24}$
41. Find: $\frac{8}{11} + \frac{2}{11}$
42. Find: $\frac{9}{13} + \frac{4}{13}$
43. Find: $\frac{11}{19} - \frac{7}{19}$
44. Find: $\frac{15}{23} - \frac{9}{23}$

45. Find: $\frac{3}{8} + \frac{3}{10}$

46. Find: $\frac{4}{15} + \frac{4}{9}$

47. Find: $\frac{5}{9} + \frac{5}{12}$

48. Find: $\frac{7}{30} + \frac{9}{35}$

49. Find: $\frac{8}{25} + \frac{11}{20}$

50. Find: $\frac{15}{42} + \frac{16}{35}$

51. Find: $\frac{7}{9} - \frac{1}{5}$

52. Find: $\frac{3}{4} - \frac{1}{3}$

53. Find: $\frac{7}{8} - \frac{2}{7}$

54. Find: $\frac{17}{18} - \frac{4}{15}$

55. Find: $\frac{12}{25} - \frac{4}{15}$

56. Find: $\frac{15}{16} - \frac{11}{24}$

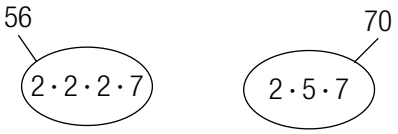
EVALUATE

Practice Test

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

1. Find the prime factorizations of 12, 28 and 40.
2. Find the GCF of 12, 28 and 40.
3. Find the LCM of 12, 28 and 40.
4. Write $\frac{18}{48}$ in lowest terms.
5. Circle the prime factors of each number in the factor trees below.

6. If Sarah runs $\frac{2}{3}$ of a mile, how much farther must she run to go $2\frac{1}{2}$ miles?
7. Find the GCF of 54 and 66.
8. Find the LCM of 15 and 50.
9. Find the least common denominator of the fractions $\frac{7}{24}$ and $\frac{2}{9}$ by finding the LCM of their denominators.
10. Find: $\frac{5}{9} \div \frac{25}{12}$
11. What are the common prime factors of 56 and 70?



12. Find the LCM and GCF of 42 and 70.