



PROBLEMS AND SOLUTIONS - OPERATIONS ON FRACTIONS
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YOU MUST BE ABLE TO DO THE FOLLOWING PROBLEMS WITHOUT A CALCULATOR!

The solutions are listed below the problem set!

Problem 1:

Find the sum of $\frac{5}{7} + \frac{3}{7}$ reduced to lowest terms.

Problem 2:

Find the sum of $\frac{2}{5} + \frac{3}{7}$ reduced to lowest terms.

Problem 3:

Simplify $\frac{5}{6} + \frac{1}{4} - \frac{3}{16}$.

Problem 4:

A business with a certain revenue must pay $\frac{1}{5}$ for raw materials, $\frac{3}{10}$ for rent and utilities, and $\frac{1}{3}$ for salaries. What fraction of the revenue is left for pure profit?

Problem 5:

Find the difference of $4 - \frac{3}{8}$ and write as a mixed number reduced to lowest terms.

Problem 6:

What number do you have to add to $\frac{10}{29}$ to get $2\frac{17}{29}$? If necessary, express your answer as a mixed number reduced to lowest terms.

Problem 7:

Simplify $7\frac{1}{4} + 2\frac{7}{8} - 4\frac{1}{3}$ and write as a mixed number reduced to lowest terms.

Problem 8:

Find the product of $\frac{3}{4} \cdot \frac{8}{9}$ reduced to lowest terms.

Problem 9:

Find the product of $\frac{3}{4} \cdot \frac{7}{8}$ reduced to lowest terms.

Problem 10:

Find the product of $32 \cdot \frac{7}{8}$ reduced to lowest terms.

Problem 11:

Find the product of $2\frac{2}{5} \cdot 1\frac{1}{3}$ and write as a mixed number reduced to lowest terms.

Problem 12:

Find the product of $3\frac{1}{4} \cdot 5$ and write as a mixed number reduced to lowest terms.

Problem 13:

Find the product of $13 \cdot 3\frac{4}{7}$ and express as a mixed number reduced to lowest terms.

Problem 14:

What number is $\frac{3}{10}$ of 150?

Problem 15:

Find the quotient of $\frac{5}{8} \div \frac{3}{4}$ reduced to lowest terms.

Problem 16:

Find the quotient of $21 \div 3\frac{5}{8}$ and write as a mixed number reduced to lowest terms.

Problem 17:

Find the quotient of $6\frac{7}{9} \div 5$ and write as a mixed number reduced to lowest terms.

Problem 18:

Find the quotient of $\frac{4}{\frac{1}{2} + \frac{3}{8} + \frac{5}{16}}$ and write as a mixed number reduced to lowest terms.

SOLUTIONS

You can find detailed solutions below the link for this problem set!

1. $1\frac{1}{7}$	2. $\frac{29}{35}$	3. $\frac{43}{48}$
4. $\frac{1}{6}$	5. $3\frac{5}{8}$	6. $2\frac{7}{29}$
7. $5\frac{19}{24}$	8. $\frac{2}{3}$	9. $\frac{21}{32}$
10. 28	11. $3\frac{1}{5}$	12. $16\frac{1}{4}$
13. $46\frac{3}{7}$	14. 45	15. $\frac{5}{6}$
16. $5\frac{23}{29}$	17. $1\frac{16}{45}$	18. $3\frac{7}{19}$