Fraction operations

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Add.

$\frac{2}{3} + \frac{9}{12}$

$= \frac{8}{12} + \frac{9}{12}$

$= \frac{17}{12}$

Add.

$\frac{3}{5} + \frac{3}{2}$

$= \frac{6}{10} + \frac{15}{10}$

$= \frac{21}{10}$

Add.

$\frac{4}{5} + \frac{2}{10}$

$= \frac{8}{10} + \frac{2}{10}$

$= \frac{10}{10} = 1$

Add.

$\frac{2}{8} + \frac{5}{12}$

$= \frac{24}{96} + \frac{40}{90}$

$= \frac{64}{96}$

Solve:

$\frac{1}{4} + \frac{3}{5} - \frac{3}{10}$

$= \frac{5}{20} + \frac{12}{20} - \frac{6}{20}$

$= \frac{11}{20}$

$2 \times 10 = 20$
$4 \times 5 = 20$
$5 \times 4 = 20$

Solve:

$\frac{5}{6} + \frac{3}{4} + \frac{2}{3}$

$= \frac{20}{24} + \frac{18}{24} + \frac{16}{24}$

$= \frac{54}{24}$

$4 \times 6 = 24$
$6 \times 4 = 24$
$8 \times 3 = 24$

Look at the equation below.

$\frac{1}{2} + \square = \frac{7}{8}$

Which fraction makes the addition equation true?

$-\frac{1}{2} \quad -\frac{1}{2}$

$x = \frac{7}{8} - \frac{1 \times 4}{2 \times 4}$

$= \frac{7}{8} - \frac{4}{8} = \boxed{\frac{3}{8}}$

Multiply.

$5 \times 1\frac{3}{4}$

$= \frac{5}{1} \times \frac{7}{4}$

$= \frac{35}{4}$

More Simplify

$= 8\ \frac{3}{4}$ → Mixed fraction

+ add
$1\ \frac{3}{4} = \frac{7}{4}$
× multiply

divisor 4) 35 Quotient 8
− 32
3 Remainder

8 | 8

4 | fraction

Multiply.

$2\frac{2}{3} \times 2\frac{2}{3}$

$8 \times 8 = 64$
$3 \times 3 = 9$

$= \frac{8}{3} \times \frac{8}{3}$

$= \frac{64}{9}$

$= 7\frac{1}{9}$

7 Q
9) 64
63
1 R

Multiply.

$1\frac{1}{3} \times \frac{6}{7}$

$4 \times 6 = 24$
$3 \times 7 = 21$

$= \frac{4}{3} \times \frac{6}{7}$

$= \frac{24}{21}$

$= 1\frac{3}{21}$

1 Q
21) 24
21
3 R

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Divide.

$\frac{1}{7} \div \frac{2}{1}$

$= \frac{1}{7} \times \frac{1}{2}$ (keep, change, flip)

$= \frac{1}{14}$

Divide.
Write your answer in simplest form.

$-\frac{7}{9} \div \frac{9}{8} = ?$

By keep change flip

$= -\frac{7}{9} \times \frac{8}{9}$

$= \frac{-56}{81}$

Divide.
Write your answer in simplest form.

$\frac{2}{9} \div \left(-\frac{6}{5}\right) = ?$

$= \frac{2}{9} \times \left(-\frac{5}{6}\right)$

$= \frac{-10 \div 2}{54 \div 2}$

$= \frac{-5}{27}$ (simplified form)

Reduce to simplest form.

$-\frac{3}{7} + \left(-\frac{3}{4}\right)$ (+ -) = −

Reduce to simplest form.

$\frac{8}{6} + \left(-\frac{9}{5}\right)$

Remove paranthesis

Remove pranthesis

$= \frac{4 \times -3}{4 \times 7} - \frac{3 \times 7}{4 \times 7}$

To make denaminator same

$= \frac{-12}{28} - \frac{21}{28}$

$-21 - 12 = -33$

$= \frac{-33}{28}$ simplified form

Remove paranthesis

$= \frac{5 \times 8}{5 \times 6} - \frac{9 \times 6}{5 \times 6}$

$= \frac{40}{30} - \frac{54}{30}$

$-54 + 40 = -14$

$= \frac{-14 \div 2}{30 \div 2}$

$= \frac{-7}{15}$ simplified Form

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