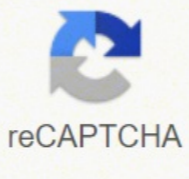




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# Simplifying algebraic fractions work

## Adding and Subtracting Fractions

Answer the first question in each row for each of the following questions. If you feel confident then move onto the next question. If you feel like you need more practice then move onto the following questions in that row. The answers are jumbled up at the bottom, cross them off to make sure you are on track!

**MUST**

1. a)  $\frac{1}{4} + \frac{1}{4}$     b)  $\frac{1}{3} + \frac{1}{3}$     c)  $\frac{1}{9} + \frac{1}{9}$     d)  $\frac{1}{5} + \frac{2}{5}$

2. a)  $\frac{2}{8} + \frac{1}{8}$     b)  $\frac{5}{9} + \frac{1}{9}$     c)  $\frac{4}{7} + \frac{1}{7}$     d)  $\frac{3}{10} + \frac{4}{10}$

3. a)  $\frac{1}{4} + \frac{1}{2}$     b)  $\frac{1}{6} + \frac{1}{4}$     c)  $\frac{3}{8} + \frac{1}{2}$     d)  $\frac{1}{6} + \frac{2}{3}$

**SHOULD**

4. a)  $\frac{1}{10} + \frac{2}{5}$     b)  $\frac{1}{6} + \frac{3}{12}$     c)  $\frac{2}{7} + \frac{4}{14}$     d)  $\frac{3}{8} + \frac{7}{16}$

5. a)  $\frac{1}{7} + \frac{1}{10}$     b)  $\frac{1}{6} - \frac{1}{12}$     c)  $\frac{3}{5} + \frac{2}{7}$     d)  $\frac{8}{9} - \frac{1}{6}$

6. a)  $\frac{7}{9} - \frac{2}{5}$     b)  $\frac{1}{6} + \frac{2}{6}$     c)  $\frac{3}{4} + \frac{1}{10}$     d)  $\frac{4}{7} + \frac{2}{5}$

**COULD**

7. a)  $\frac{5}{7} + \frac{7}{9}$     b)  $\frac{5}{6} + \frac{7}{8}$     c)  $\frac{5}{6} + \frac{7}{10}$     d)  $\frac{3}{4} + \frac{5}{6}$

8. a)  $1\frac{1}{4} + \frac{3}{8}$     b)  $2\frac{2}{3} + \frac{2}{5}$     c)  $4\frac{3}{7} + \frac{3}{5}$     d)  $5\frac{3}{8} + \frac{3}{4}$

9. a)  $1\frac{1}{4} + 2\frac{1}{6}$     b)  $3\frac{4}{7} + 4\frac{5}{8}$     c)  $2\frac{1}{4} + 5\frac{2}{3}$     d)  $3\frac{2}{5} + 3\frac{2}{7}$

### Answers

$\frac{1}{2}, \frac{2}{3}, \frac{2}{9}, \frac{1}{2}, \frac{3}{5}, \frac{7}{10}, \frac{5}{8}, \frac{1}{3}, \frac{31}{35}, \frac{4}{7}, \frac{5}{8}, \frac{17}{45}, \frac{1}{12}, \frac{13}{16}, \frac{1}{63}, \frac{7}{8}, \frac{5}{35}, \frac{8}{7}, \frac{2}{20}, \frac{2}{3}, \frac{8}{9}, \frac{5}{8}, \frac{3}{8}, 1, \frac{5}{8}, \frac{17}{70}, \frac{34}{35}, 1, \frac{17}{24}, \frac{5}{10}, 3, \frac{5}{12}, \frac{7}{12}, 1, \frac{7}{12}, \frac{1}{2}, \frac{2}{9}, \frac{5}{7}, \frac{3}{4}, \frac{11}{24}, 1, \frac{8}{15}, \frac{5}{12}, 6, \frac{1}{8}, \frac{5}{6}, 6, \frac{24}{35}, \frac{13}{18}, 2, \frac{8}{9}, \frac{1}{2}$

## Simplifying Expressions (A)

Simplify each expression.

- $u^2 + 1 + u - 1$
- $-b + b^2 - 1 + b^2$
- $6 + z + z^2 + z$
- $u^2 + 6 + u + 6u$
- $u - 6u - 4u + u^2$
- $c + 4 + 6c + 1$
- $5 + c + 1 - 1$
- $-5 + 6u^2 + 3 + u$
- $2u + 3u - 6u - 5u^2$
- $-4b - b + 3b^2 + b$

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## Warm-up activity 1

Multiply these fractions, and simplify your answers where possible:

- $\frac{3}{5} \times \frac{4}{15}$
- $\frac{3}{2} \times \frac{4}{3}$
- $\frac{5}{6} \times \frac{9}{10}$
- $\frac{70}{171} \times \frac{171}{140}$



## Simplifying Fractions

$\frac{21x^2y^3}{35xy^6}$      $\frac{60x^3y^7}{48x^5y^4}$

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When adding two fractions, the denominator must be the same.  $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

To simplify algebraic fractions, you must be sure to cancel with fractions. If we want to express  $\frac{1}{2} + \frac{1}{3}$  as a single fraction, we need to find a common denominator and therefore Add or subtract the resulting fractions.  $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

Factorizing Quadratic Expressions module  $X^2 + BX + C$ , including the difference of 2 squares; (Facilitate quadratic expressions of the form  $AX^2 + BX + C$ ) form by simplifying expressions involving sums, products, and powers, including laws of equation indexes Equation functions prepare your KS4 students for GCSE GCSS with third space learning.

Cancellation of terms incorrectly seeing the same term on the numerator and the denominator may wrongly result in the cancelling that can be undone either.  $\frac{2x}{2x} = 1$  but  $\frac{2x}{2x} = 1$  is not true if  $x = 0$

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