

N6.12.1 | Fractions
Mixed exercises
non calculator

Work out the following. Give the answer as a fraction or mixt number in simplest form.

$\frac{2}{3} + \frac{5}{6} \left(\frac{3}{7} - \frac{2}{21} \right) =$ $\frac{2}{3} + \frac{5}{6} \left(\frac{9-2}{21} \right) =$ $\frac{2}{3} + \frac{5}{6} \times \frac{7^1}{21_3} =$ $\frac{2}{3} + \frac{5}{18} =$ $\frac{12+5}{18} = \frac{17}{18}$	$\frac{1}{2} + \frac{4}{3} = \frac{1+14}{2+3} = \frac{3+28}{6} = \frac{31}{6} =$ $\frac{5}{7} \div \frac{15}{7} = \frac{5^1 \times 7^1}{7^1 \times 15^3} = \frac{1}{3} = \frac{6}{6} = \frac{1}{3} =$ $\frac{31}{6} \div \frac{1}{3} = \frac{31}{6_2} \times \frac{3^1}{1} =$ $\frac{31}{2} = 15 \frac{1}{2}$	$1 - \frac{1-\frac{2}{3}}{2-\frac{5}{6}} = 1 - \frac{1-\frac{2}{3}}{\frac{12-5}{6}} = 1 - \frac{\frac{3-2}{3}}{\frac{12-5}{6}} =$ $1 - \frac{\frac{1}{3}}{\frac{7}{6}} = 1 - \frac{1}{3} \div \frac{7}{6} = 1 -$ $\frac{1}{3} \times \frac{6^2}{7} =$ $1 - \frac{2}{7} = \frac{1}{1} - \frac{2}{7} = \frac{7-1}{7} = \frac{6}{7}$
$9 \frac{1}{2} \div \left(10 - \frac{1}{2} \right) =$	$\frac{70}{29} \div \frac{1}{\frac{5}{7} + \frac{3}{7}} =$	$\frac{1}{11} - 2 \div \frac{3+\frac{2}{3}}{2} =$
$3 + \frac{2}{3+\frac{2}{3}} \times 1 \frac{5}{6} =$	$\left(\frac{1+\frac{3}{7}}{2} \right) \div \frac{13}{28} - 2 =$ $\frac{8}{11} + \frac{15}{121} \times \frac{11}{5} - 2 =$	$\left(\frac{5}{16} - \frac{36}{48} \div \frac{4}{5} + \frac{5}{8} \right) - \frac{1}{2} =$
$-3 - \frac{21}{48} \div \frac{7}{16} - \frac{52}{34} \times \frac{17}{26} =$	$\left(2 \frac{5}{7} + \frac{3}{14} \right) \div \frac{41}{28} - \frac{1}{3} =$	$\frac{1}{\frac{1}{2}} \times 100 - \frac{1}{2} \div \frac{1}{400} =$
$\frac{5}{9} + 3 \div \frac{1}{\frac{1}{3}} - \frac{10}{18} =$	$\frac{7}{12} + \frac{2}{5} \times 2 \frac{3}{6} =$ $\frac{19}{24}$	$\left(\frac{3}{35} + \frac{5}{7} - \frac{4}{5} \right) + \frac{3}{4} \div \frac{3}{\frac{1}{3}+3} =$