



## Year 6 Worksheet 3 - Fractions

Question 1: Add the following, simplify or convert to a mixed number.

$\frac{5}{9} + \frac{2}{5} =$	$\frac{2}{3} - \frac{2}{4} =$	$\frac{1}{2} + \frac{1}{9} =$
$\frac{5}{7} + \frac{5}{11} =$	$\frac{7}{9} + \frac{2}{3} =$	$\frac{1}{2} - \frac{1}{4} =$
$\frac{2}{4} - \frac{3}{7} =$	$\frac{4}{7} - \frac{6}{12} =$	$\frac{2}{4} + \frac{2}{11} =$
$\frac{7}{8} + \frac{3}{4} =$	$\frac{9}{12} + \frac{5}{11} =$	$\frac{8}{9} - \frac{2}{3} =$
$\frac{3}{5} + \frac{1}{2} =$	$\frac{2}{8} - \frac{1}{6} =$	$\frac{2}{3} - \frac{2}{7} =$
$\frac{3}{4} - \frac{2}{6} =$	$\frac{4}{6} + \frac{2}{4} =$	$\frac{7}{10} + \frac{1}{2} =$



Question 2: Multiply the following, simplify or convert to a mixed number.

$\frac{2}{3} \times \frac{4}{5} =$	$\frac{4}{10} \times \frac{3}{4} =$	$\frac{5}{6} \times \frac{1}{12} =$
$\frac{3}{12} \times \frac{1}{3} =$	$\frac{3}{5} \times \frac{15}{12} =$	$\frac{6}{12} \times \frac{4}{3} =$
$\frac{6}{18} \times \frac{3}{9} =$	$\frac{5}{16} \times \frac{2}{45} =$	$\frac{2}{27} \times \frac{9}{14} =$
$\frac{6}{36} \times \frac{2}{17} =$	$\frac{2}{15} \times \frac{5}{5} =$	$\frac{4}{18} \times \frac{4}{16} =$
$\frac{3}{18} \times \frac{6}{21} =$	$\frac{25}{45} \times \frac{9}{5} =$	$\frac{4}{24} \times \frac{8}{6} =$
$\frac{15}{50} \times \frac{5}{10} =$	$\frac{12}{36} \times \frac{3}{45} =$	$\frac{6}{35} \times \frac{25}{24} =$



Question 3: Divide the following, simplify or convert to a mixed number.

$\frac{1}{2} \div \frac{1}{3} =$	$\frac{5}{6} \div \frac{1}{7} =$	$\frac{3}{7} \div \frac{6}{2} =$
$\frac{2}{8} \div \frac{3}{4} =$	$\frac{7}{5} \div \frac{14}{15} =$	$\frac{36}{2} \div \frac{22}{14} =$
$\frac{4}{25} \div \frac{5}{10} =$	$\frac{16}{18} \div \frac{13}{9} =$	$\frac{88}{22} \div \frac{24}{11} =$
$\frac{24}{40} \div \frac{36}{45} =$	$\frac{39}{13} \div \frac{15}{3} =$	$\frac{16}{40} \div \frac{48}{10} =$



Question 4: Answer the following, simplify or convert to a mixed number.

$\frac{2}{7} + \frac{3}{5} =$	$\frac{5}{9} - \frac{1}{4} =$	$\frac{1}{2} \div \frac{1}{9} =$
$\frac{5}{7} \times \frac{5}{11} =$	$\frac{7}{9} \div \frac{2}{3} =$	$\frac{1}{7} - \frac{1}{9} =$
$\frac{5}{8} - \frac{3}{7} =$	$\frac{4}{7} \times \frac{6}{12} =$	$\frac{3}{12} + \frac{2}{11} =$
$\frac{7}{8} \times \frac{3}{4} =$	$\frac{9}{15} + \frac{5}{10} =$	$\frac{8}{9} \div \frac{2}{3} =$
$\frac{3}{5} \div \frac{1}{2} =$	$\frac{2}{8} - \frac{1}{16} =$	$\frac{2}{3} \times \frac{2}{7} =$
$\frac{6}{8} - \frac{1}{6} =$	$\frac{4}{6} \times \frac{2}{4} =$	$\frac{7}{12} + \frac{2}{10} =$



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## Answer Key

Question 1: Add the following, simplify or convert to a mixed number.

$\frac{5}{9} + \frac{2}{5} = \frac{43}{45}$	$\frac{2}{3} - \frac{2}{4} = \frac{1}{6}$	$\frac{1}{2} + \frac{1}{9} = \frac{11}{18}$
$\frac{5}{7} + \frac{5}{11} = 1\frac{13}{77}$	$\frac{7}{9} + \frac{2}{3} = 1\frac{4}{9}$	$\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$
$\frac{2}{4} - \frac{3}{7} = \frac{1}{14}$	$\frac{4}{7} - \frac{6}{12} = \frac{1}{14}$	$\frac{2}{4} + \frac{2}{11} = \frac{15}{22}$
$\frac{7}{8} + \frac{3}{4} = 1\frac{5}{8}$	$\frac{9}{12} + \frac{5}{11} = 1\frac{9}{44}$	$\frac{8}{9} - \frac{2}{3} = \frac{2}{9}$
$\frac{3}{5} + \frac{1}{2} = 1\frac{1}{10}$	$\frac{2}{8} - \frac{1}{6} = \frac{1}{12}$	$\frac{2}{3} - \frac{2}{7} = \frac{8}{21}$
$\frac{3}{4} - \frac{2}{6} = \frac{5}{12}$	$\frac{4}{6} + \frac{2}{4} = \frac{7}{6}$	$\frac{7}{10} + \frac{1}{2} = 1\frac{1}{5}$



Question 2: Multiply the following, simplify or convert to a mixed number.

$\frac{2}{3} \times \frac{4}{5} = \frac{8}{15}$	$\frac{4}{10} \times \frac{3}{4} = \frac{3}{10}$	$\frac{5}{6} \times \frac{1}{12} = \frac{5}{72}$
$\frac{3}{12} \times \frac{1}{3} = \frac{1}{12}$	$\frac{3}{5} \times \frac{15}{12} = \frac{3}{4}$	$\frac{6}{12} \times \frac{4}{3} = \frac{2}{3}$
$\frac{6}{18} \times \frac{3}{9} = \frac{1}{9}$	$\frac{5}{16} \times \frac{2}{45} = \frac{1}{72}$	$\frac{2}{27} \times \frac{9}{14} = \frac{1}{21}$
$\frac{6}{36} \times \frac{2}{17} = \frac{1}{51}$	$\frac{2}{15} \times \frac{5}{5} = \frac{2}{15}$	$\frac{4}{18} \times \frac{4}{16} = \frac{1}{18}$
$\frac{3}{18} \times \frac{6}{21} = \frac{1}{21}$	$\frac{25}{45} \times \frac{9}{5} = 1$	$\frac{4}{24} \times \frac{8}{6} = \frac{2}{9}$
$\frac{15}{50} \times \frac{5}{10} = \frac{3}{20}$	$\frac{12}{36} \times \frac{3}{45} = \frac{1}{45}$	$\frac{6}{35} \times \frac{25}{24} = \frac{5}{28}$



Question 3: Divide the following.

$\frac{1}{2} \div \frac{1}{3} = \frac{3}{2}$	$\frac{5}{6} \div \frac{1}{7} = \frac{35}{6}$	$\frac{3}{7} \div \frac{6}{2} = \frac{1}{7}$
$\frac{2}{8} \div \frac{3}{4} = \frac{1}{3}$	$\frac{7}{5} \div \frac{14}{15} = \frac{3}{2}$	$\frac{36}{2} \div \frac{22}{14} = \frac{126}{11}$
$\frac{4}{25} \div \frac{5}{10} = \frac{8}{25}$	$\frac{16}{18} \div \frac{13}{9} = \frac{8}{13}$	$\frac{88}{22} \div \frac{24}{11} = \frac{11}{6}$
$\frac{24}{40} \div \frac{36}{45} = \frac{3}{4}$	$\frac{39}{13} \div \frac{15}{3} = \frac{3}{5}$	$\frac{16}{40} \div \frac{48}{10} = \frac{1}{12}$





Question 4: Answer the following, simplify or convert to a mixed number.

$\frac{2}{7} + \frac{3}{5} = \frac{31}{35}$	$\frac{5}{9} - \frac{1}{4} = \frac{11}{36}$	$\frac{1}{2} \div \frac{1}{9} = 4\frac{1}{2}$
$\frac{5}{7} \times \frac{5}{11} = \frac{25}{77}$	$\frac{7}{9} \div \frac{2}{3} = 1\frac{1}{6}$	$\frac{1}{7} - \frac{1}{9} = \frac{2}{63}$
$\frac{5}{8} - \frac{3}{7} = \frac{11}{56}$	$\frac{4}{7} \times \frac{6}{12} = \frac{2}{7}$	$\frac{3}{12} + \frac{2}{11} = \frac{19}{44}$
$\frac{7}{8} \times \frac{3}{4} = \frac{21}{32}$	$\frac{9}{15} + \frac{5}{10} = 1\frac{1}{10}$	$\frac{8}{9} \div \frac{2}{3} = 1\frac{1}{3}$
$\frac{3}{5} \div \frac{1}{2} = 1\frac{1}{5}$	$\frac{2}{8} - \frac{1}{16} = \frac{3}{16}$	$\frac{2}{3} \times \frac{2}{7} = \frac{4}{21}$
$\frac{6}{8} - \frac{1}{6} = \frac{7}{12}$	$\frac{4}{6} \times \frac{2}{4} = \frac{1}{3}$	$\frac{7}{12} + \frac{2}{10} = \frac{47}{60}$