

Name:

Class/Set:

Adding and Subtracting Fractions

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1: Work out the following, showing your method and simplifying your answer:

a) $\frac{5}{53} + \frac{18}{53}$

b) $\frac{50}{73} + \frac{12}{73}$

c) $\frac{8}{17} + \frac{5}{17}$

d) $\frac{19}{43} + \frac{16}{43}$

2: Work out the following, showing your method and simplifying your answer:

a) $\frac{31}{71} - \frac{3}{71}$

b) $\frac{17}{41} - \frac{11}{41}$

c) $\frac{51}{59} - \frac{8}{59}$

d) $\frac{34}{97} - \frac{24}{97}$

3: Work out the following, showing your method and simplifying your answer:

a) $\frac{4}{9} + \frac{14}{27}$

b) $\frac{3}{10} + \frac{1}{2}$

c) $\frac{1}{10} + \frac{11}{40}$

d) $\frac{1}{16} + \frac{3}{8}$

4: Work out the following, showing your method and simplifying your answer:

a) $\frac{7}{9} - \frac{1}{3}$

b) $\frac{3}{4} - \frac{3}{20}$

c) $\frac{11}{24} - \frac{1}{6}$

d) $\frac{9}{14} - \frac{3}{7}$

5: Work out the following, showing your method and simplifying your answer:

a) $\frac{2}{3} + \frac{2}{7}$

b) $\frac{1}{10} + \frac{5}{6}$

c) $\frac{3}{10} + \frac{2}{3}$

d) $\frac{1}{4} + \frac{1}{9}$

6: Work out the following, showing your method and simplifying your answer:

a) $\frac{3}{4} - \frac{1}{6}$

b) $\frac{7}{8} - \frac{1}{6}$

c) $\frac{3}{4} - \frac{7}{10}$

d) $\frac{1}{4} - \frac{1}{7}$

7: Work out the following, showing your method and simplifying your answer:

a) $4\frac{3}{5} - 2\frac{13}{20}$

b) $3\frac{3}{10} + 4\frac{19}{20}$

c) $3\frac{5}{6} - 1\frac{1}{2}$

d) $1\frac{11}{24} + 4\frac{7}{8}$

8: Work out the following, showing your method and simplifying your answer:

a) $4\frac{1}{8} - 2\frac{2}{5}$

b) $3\frac{2}{5} + 1\frac{1}{2}$

c) $3\frac{3}{10} - 2\frac{7}{8}$

d) $1\frac{1}{2} + 4\frac{4}{9}$

Answers: Adding and Subtracting Fractions

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1: a) $\frac{5}{53} + \frac{18}{53} = \frac{23}{53}$

b) $\frac{50}{73} + \frac{12}{73} = \frac{62}{73}$

c) $\frac{8}{17} + \frac{5}{17} = \frac{13}{17}$

d) $\frac{19}{43} + \frac{16}{43} = \frac{35}{43}$

2: a) $\frac{31}{71} - \frac{3}{71} = \frac{28}{71}$

b) $\frac{17}{41} - \frac{11}{41} = \frac{6}{41}$

c) $\frac{51}{59} - \frac{8}{59} = \frac{43}{59}$

d) $\frac{34}{97} - \frac{24}{97} = \frac{10}{97}$

3: a) $\frac{12}{27} + \frac{14}{27} = \frac{26}{27}$

b) $\frac{3}{10} + \frac{5}{10} = \frac{8}{10} = \frac{4}{5}$

c) $\frac{4}{40} + \frac{11}{40} = \frac{15}{40} = \frac{3}{8}$

d) $\frac{1}{16} + \frac{6}{16} = \frac{7}{16}$

4: a) $\frac{7}{9} - \frac{3}{9} = \frac{4}{9}$

b) $\frac{15}{20} - \frac{3}{20} = \frac{12}{20} = \frac{3}{5}$

c) $\frac{11}{24} - \frac{4}{24} = \frac{7}{24}$

d) $\frac{9}{14} - \frac{6}{14} = \frac{3}{14}$

5: a) $\frac{14}{21} + \frac{6}{21} = \frac{20}{21}$

b) $\frac{3}{30} + \frac{25}{30} = \frac{28}{30} = \frac{14}{15}$

c) $\frac{9}{30} + \frac{20}{30} = \frac{29}{30}$

d) $\frac{9}{36} + \frac{4}{36} = \frac{13}{36}$

6: a) $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$

b) $\frac{21}{24} - \frac{4}{24} = \frac{17}{24}$

c) $\frac{15}{20} - \frac{14}{20} = \frac{1}{20}$

d) $\frac{7}{28} - \frac{4}{28} = \frac{3}{28}$

7: a) $4\frac{12}{20} - 2\frac{13}{20} = 1\frac{19}{20}$

b) $3\frac{6}{20} + 4\frac{19}{20} = 8\frac{5}{20} = 8\frac{1}{4}$

c) $3\frac{5}{6} - 1\frac{3}{6} = 2\frac{2}{6} = 2\frac{1}{3}$

d) $1\frac{11}{24} + 4\frac{21}{24} = 6\frac{8}{24} = 6\frac{1}{3}$

8: a) $4\frac{5}{40} - 2\frac{16}{40} = 1\frac{29}{40}$

b) $3\frac{4}{10} + 1\frac{5}{10} = 4\frac{9}{10}$

c) $3\frac{12}{40} - 2\frac{35}{40} = \frac{17}{40}$

d) $1\frac{9}{18} + 4\frac{8}{18} = 5\frac{17}{18}$